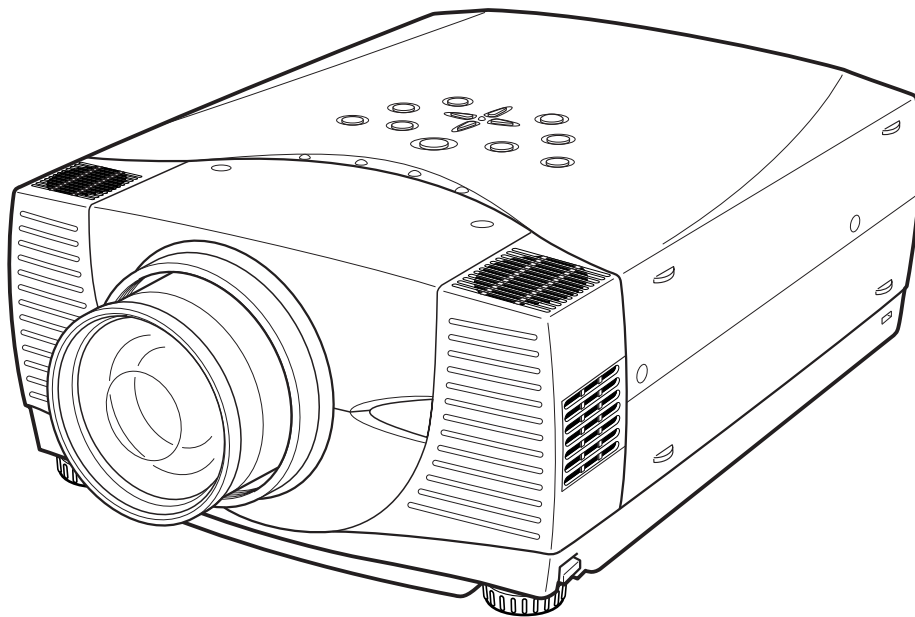


TOSHIBA

OWNER'S MANUAL

3LCD DATA PROJECTOR

TLP-X4100E



SAFETY PRECAUTIONS

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
(1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
(2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

SERVICE PERSONNEL--WARNING
EYE DAMAGE MAY RESULT FROM DIRECTLY VIEWING THE LIGHT PRODUCED BY THE LAMP USED IN THIS EQUIPMENT.
ULTRAVIOLET RADIATION EYE PROTECTION REQUIRED DURING SERVICING.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS: RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIIR

MARSA



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. DANGEROUS HIGH VOLTAGES ARE PRESENT INSIDE THE ENCLOSURE. DO NOT OPEN THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

WARNING: This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CAUTION: Laser beam is emitted when the laser button of the remote control is pressed. Do not look from the front of the remote control. Do not face toward a person or to a mirror.

IMPORTANT PRECAUTIONS

Save Original Packing Materials

The original shipping carton and packing materials will come in handy if you ever have to ship your LCD projector. For maximum protection, repack the set as it was originally packed at the factory.

Avoid Volatile Liquid

Do not use volatile liquids, such as an insect spray, near the unit.
Do not leave rubber or plastic products touching the unit for a long time. They will mar the finish.

Moisture Condensation

Never operate this unit immediately after moving it from a cold location to a warm location. When the unit is exposed to such a change in temperature, moisture may condense on the crucial internal parts. To prevent the unit from possible damage, do not use the unit for at least 2 hours when there is an extreme or sudden change in temperature.

Exemption Clauses

- Toshiba Corporation bears no responsibility in the case of damages arising from earthquakes, fire not liable to Toshiba Corporation, operating by third parties, other accidents, or use under abnormal conditions including erroneous or improper operation and other problems.
- Toshiba Corporation bears no responsibility for incidental damages (lost profit, work interruption, corruption or loss of the memory contents, etc.) arising from the use of or the inability to use this unit.
- Toshiba Corporation accepts no liability whatsoever for any damages arising from not having followed the descriptions in this Owner’s Manual.
- Toshiba Corporation accepts no liability whatsoever for any damages arising from malfunctions arising from combination with equipment or software that is not related to Toshiba Corporation.

In the spaces provided below, record the Model and Serial No. located at the bottom of your LCD projector.

Model No. _____ Serial No. _____

Retain this information for future reference.

IMPORTANT SAFETY INSTRUCTIONS

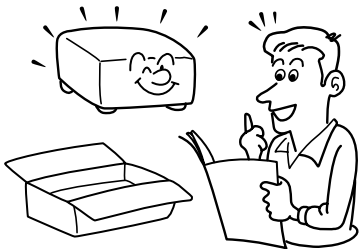
CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS GIVEN IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE.

This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use and servicing. This unit is fully transistorized and does not contain any parts that can be repaired by the user.

DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

1. Read Owner's Manual

After unpacking this product, read the owner's manual carefully, and follow all the operating and other instructions.



2. Power Sources

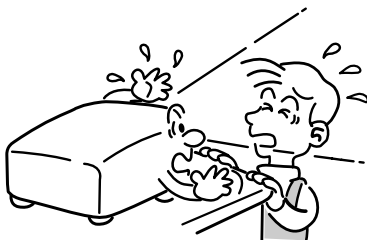
This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

For products intended to operate from battery power, or other sources, refer to the operating instructions.



3. Source of Light

Do not look into the lens while the lamp is on. The strong light from the lamp may cause damage to your eyes or sight.



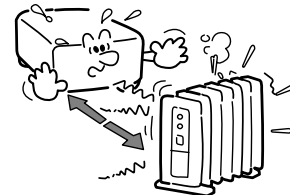
4. Ventilation

Openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.



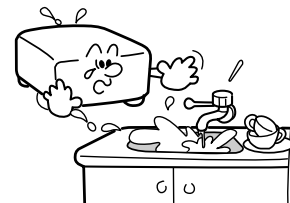
5. Heat

The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.



6. Water and Moisture

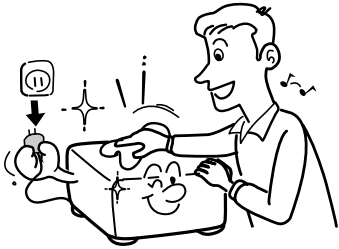
Do not use this product near water – for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool and the like.



IMPORTANT SAFETY INSTRUCTIONS

7. Cleaning

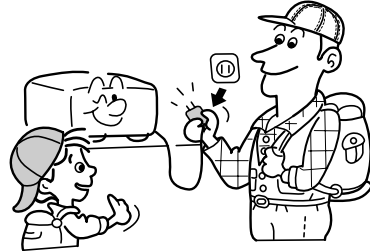
Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.



10. Lightning

For added protection for this product during storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet.

This will prevent damage to the product due to lightning and power-line surges.



8. Power-Cord Protection

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.



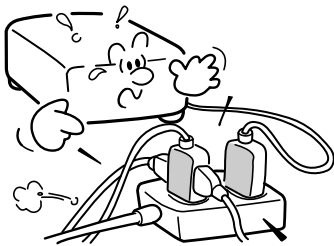
11. Object and Liquid Entry

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.



9. Overloading

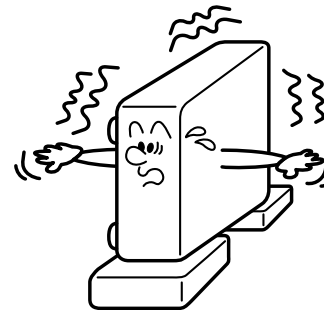
Do not overload wall outlets; extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.



12. Do not place the product vertically

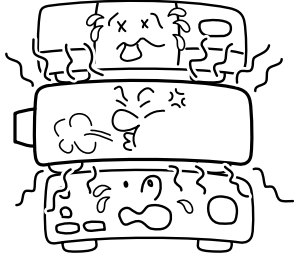
Do not use the product in the upright position to project the pictures at the ceiling, or any other vertical positions.

It may fall down and dangerous.



13. Stack Inhibited

Do not stack other equipment on this product or do not place this product on the other equipment. Top and bottom plates of this product develops heat and may give some undesirable damage to other unit.



14. Attachments

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

15. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



16. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance – this indicates a need for service.

17. If glass components, including lens and lamp, should break, contact your dealer for repair service.

This product incorporates glass components, including a lens and a lamp. If such parts should break, please handle with care to avoid injury and contact your dealer for repair service. The broken pieces of glass may cause to injury.

In the unlikely event of the lamp rupturing, thoroughly clean the area around the projector and discard any edible items placed in that area.

18. Servicing

Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.



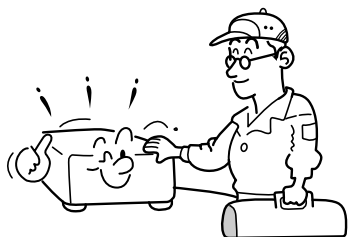
IMPORTANT SAFETY INSTRUCTIONS

19. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards. (Replacement of the lamp only should be made by users.)

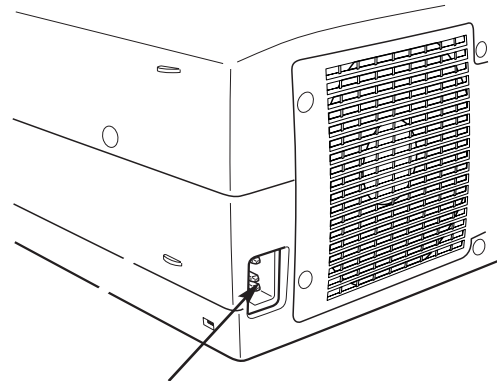
20. Safety Check

Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.



CONNECTING AC POWER CORD

This projector uses nominal input voltages of 100-120 V or 200-240 V AC. This projector automatically selects correct input voltage. It is designed to work with single-phase power systems having a grounded neutral conductor. To reduce risk of electrical shock, do not plug into any other type of power system. Consult your authorized dealer or service station if you are not sure of type of power supply being in use. Connect a projector with a peripheral equipment before turning a projector on. (Refer to pages 13 ~ 15 for connection.)



Connect AC Power Cord (supplied) to a projector. AC outlet must be near this equipment and must be easily accessible.



CAUTION

For safety, unplug AC Power Cord when an appliance is not used. When this projector is connected to outlet with AC Power Cord, an appliance is in Stand-by Mode and consumes a little electric power.

NOTE ON POWER CORD

AC Power Cord must meet requirement of country where you use a projector. Confirm an AC plug type with chart below and proper AC Power Cord must be used. If supplied AC Power Cord does not match your AC outlet, contact your sales dealer.

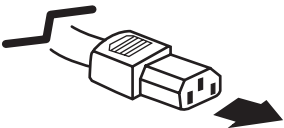
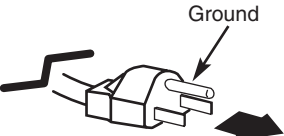
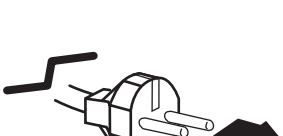
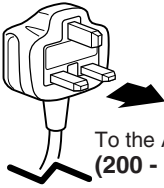
Projector side	AC Outlet side		
 <p>To POWER CORD CONNECTOR on your projector.</p>	<p>For the U.S.A. and Canada</p>  <p>To the AC Outlet. (120 V AC)</p>	<p>For Continental Europe</p>  <p>To the AC Outlet. (200 - 240 V AC)</p>	<p>For the U.K.</p>  <p>To the AC Outlet. (200 - 240 V AC)</p>

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TRADEMARKS

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FEATURES AND DESIGN

This Multimedia Projector is designed with most advanced technology for portability, durability, and ease of use. This projector utilizes built-in multimedia features, a palette of 16.77 million colors, and matrix liquid crystal display (LCD) technology.

◆ Compact Design

This projector is extremely compact in size and weight. It is designed to carry and work anywhere you wish to use.

◆ Compatibility

This projector widely accepts various video and computer input signals including;

- **Computers**
IBM-compatible or Macintosh computer up to 1280 x 1024 resolution.
- **6 Color Systems**
NTSC, PAL, SECAM, NTSC 4.43, PAL-M or PAL-N color system can be connected.
- **Component Video**
Component video signal, such as a DVD player output high definition TV signals including 480i, 480p, 575i, 575p, 720p, 1035i or 1080i, can be connected.
- **S-Video**
S-Video signal, such as a S-VHS VCR output signal, can be connected.

◆ High Resolution Image

This projector provides 1024 x 768 dots resolution for computer input and 800 horizontal TV lines. Resolution from a computer between XGA (1024 x 768) and SXGA (1280 x 1024) is compressed into 1024 x 768 dots. This projector cannot display image of over 1280 x 1024 dots. When resolution of your computer is over than 1280 x 1024, reset a computer output for lower resolution.

◆ Multi-Scan System

This projector has Multi-Scan System to conform to almost all computer output signals quickly. There is no need for troublesome manual adjustment of frequency and other settings.

◆ One-Touch Auto PC Adjustment

Incoming computer video signals are recognized and best adjustment is automatically set by Auto PC Adjustment. No complicated setup is necessary and projection is always precise.

◆ Motor-driven Lens Shift

Projection lens can be moved up and down with motor-driven lens shift function. This function makes it easy to provide projected image where you want. Zoom and focus can be also adjusted with motor-driven operation.

◆ Digital Zoom (for Computer)

Digital Zoom function adjusts image size to approx. 1/4 ~ 49 times of original image size, allowing you to focus on crucial information at a presentation.

◆ Keystone Correction

Positioning of a projector may result in distorted image being displayed in a trapezoid shape. Keystone Correction solves this problem by digitally altering projection to produce undistorted images.

◆ Power Management

Power Management function is provided to reduce power consumption while a projector is not in use. This Power Management function operates to turn Projection Lamp off when a projector detects signal interruption and any button is not pressed over 5 minutes. Projection Lamp is automatically turned on again when a projector detects signal or any operation button is pressed. This projector is shipped with this function ON.

◆ Digital Visual Interface

This projector is equipped with DVI 24-pin terminal for connecting DVI output from a computer.

◆ Laser Pointer Function

Remote Control Unit supplied with this projector includes Laser Pointer function. This function helps you to make a smart presentation on a projected screen.

◆ Wireless Mouse

Remote Control Unit supplied with this projector has Wireless Mouse function for a connected computer. This function enables you to operate both projector and computer with Remote Control Unit only.

◆ Multilanguage Menu Display

Operation menu is displayed in; English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Chinese, Korean or Japanese.

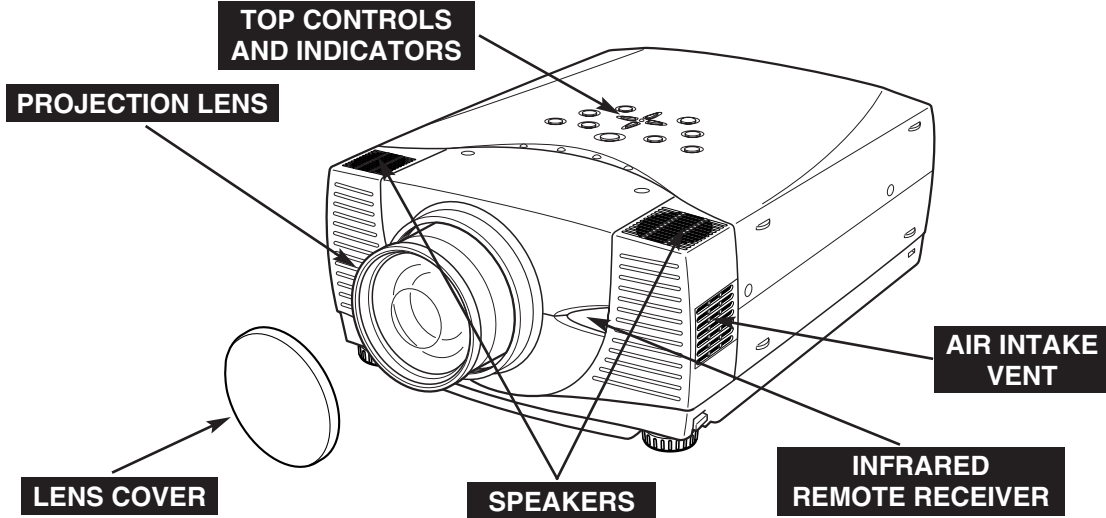
◆ Network Adapter Box (Optional)

Network Adapter Box is an optional product to control and set up a projector via the network cable. By accessing to the connected projector using the web browser on your computer. It can be controlled and set up the projector remotely. Contact the sales dealer where you purchased this projector for optional parts.

PREPARATION

NAME OF EACH PART OF PROJECTOR

FRONT OF CABINET



BACK OF CABINET

EXHAUST VENT



HOT AIR EXHAUSTED !

Air blown from exhaust vent is hot. When using or installing a projector, following precautions should be taken.

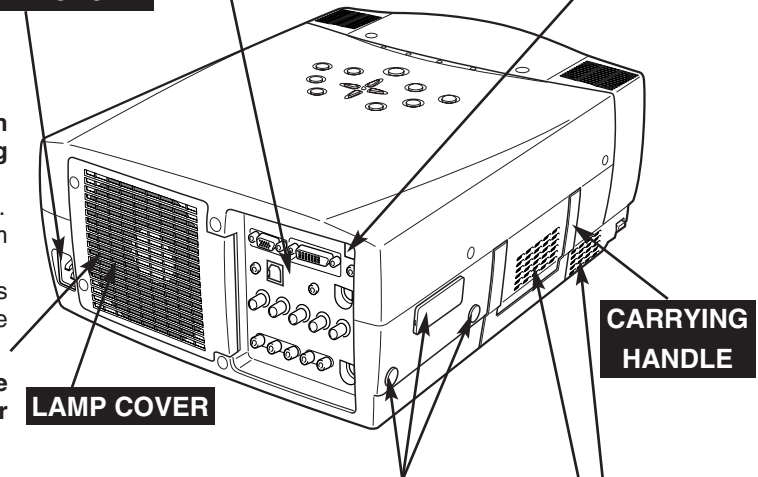
- Do not put a flammable object near this vent.
- Keep rear grills at least 3'(1 m) away from any object, especially heat-sensitive object.
- Do not touch this area, especially screws and metallic parts. This area will become hot while a projector is used.

This projector detects internal temperature and automatically controls operating power of Cooling Fans.

POWER CORD CONNECTOR

TERMINALS AND CONNECTORS

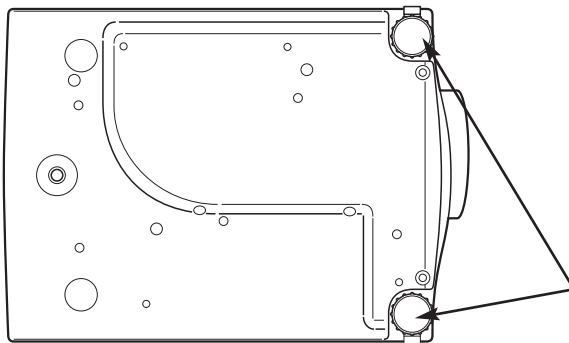
INFRARED REMOTE RECEIVER



When attached the Network Adapter Box (optional part) to the projector, remove the these parts.

Refer to the owner's manual in the optional Network Adapter Box.

BOTTOM OF CABINET



AIR INTAKE VENTS

This projector is equipped with cooling fans for protection from overheating. Pay attention to following to ensure proper ventilation and avoid a possible risk of fire and malfunction.

- Do not cover vent slots.
- Keep side clear of any objects. Obstructions may block cooling air.

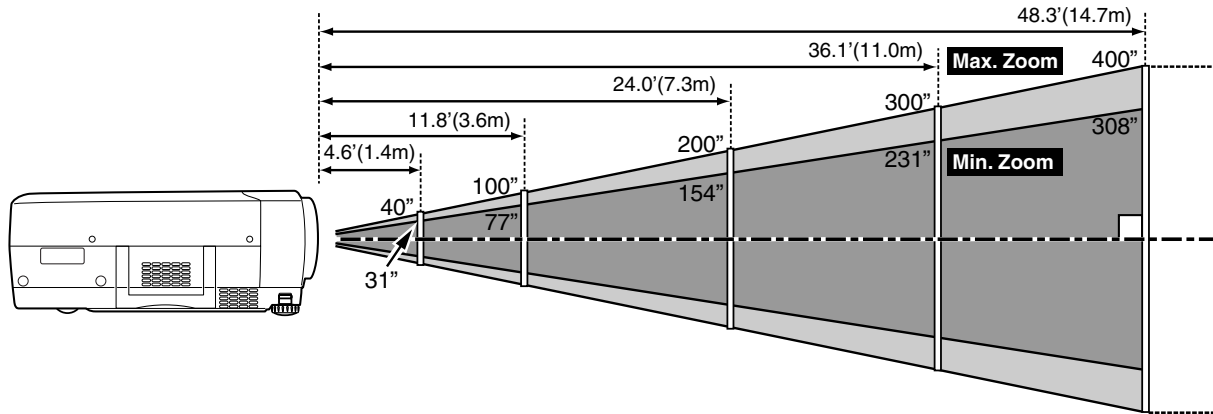
ADJUSTABLE FEET AND FEET LOCK LATCHES

SETTING-UP PROJECTOR

POSITIONING PROJECTOR

- This projector is designed to project on a flat projection surface.
- Projector can be focused from 4.6' (1.4m) ~ 48.3' (14.7m).
- Refer to figure below to adjust screen size.

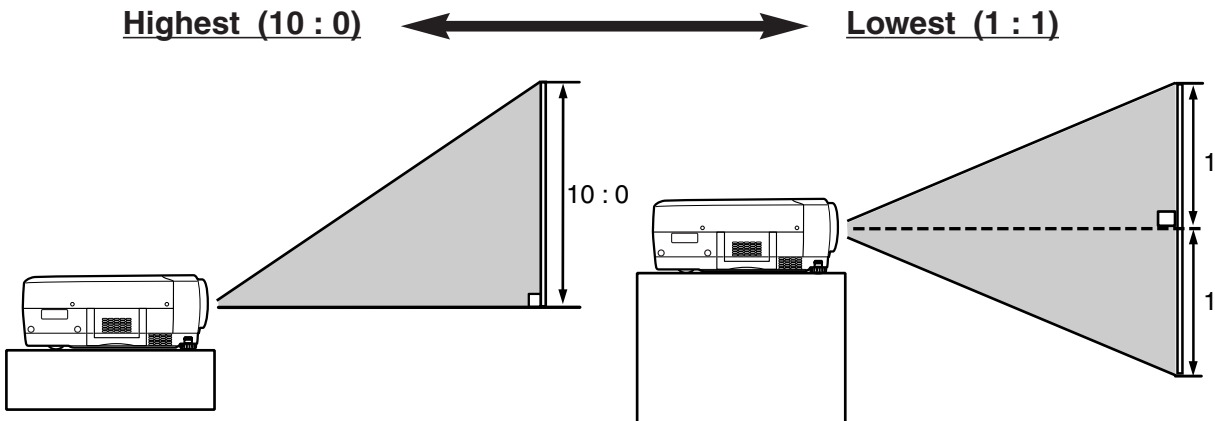
ROOM LIGHT
 Brightness in room has a great influence on picture quality. It is recommended to limit ambient lighting in order to provide best image.



Screen Size	Max. Zoom	40"	100"	150"	200"	250"	300"	400"
	Min. Zoom	31"	77"	115"	154"	192"	231"	308"
Distance		4.6' (1.4m)	11.8' (3.6m)	17.7' (5.4m)	24.0' (7.3m)	30.2' (9.2m)	36.1' (11.0m)	48.3' (14.7m)

LENS SHIFT ADJUSTMENT

Projection lens can be moved up and down with motor-driven lens shift function. This function makes it easy to provide projected image where you want. U/D ratio can be adjusted 10 : 0 ~ 1 : 1 (refer to figure below.). Refer to P 22 for operation.



ADJUSTABLE FEET

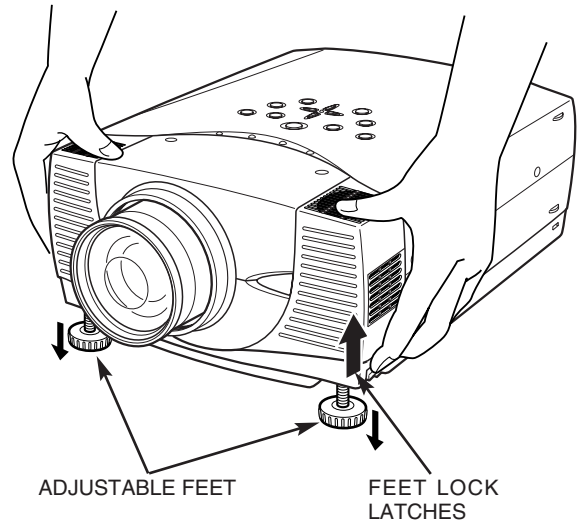
Picture tilt and projection angle can be adjusted by rotating ADJUSTABLE FEET. Projection angle can be adjusted to 10.5 degrees.

- 1** Lift front of a projector and pull FEET LOCK LATCHES on both sides of a projector.
- 2** Release FEET LOCK LATCHES to lock ADJUSTABLE FEET and rotate ADJUSTABLE FEET to fine tune position and tilt.
- 3** To shorten ADJUSTABLE FEET, lift front of a projector and pull and undo FEET LOCK LATCHES.

Position and keystone distortion of image can be adjusted using Menu Operation. (Refer to P 22 and 37.)

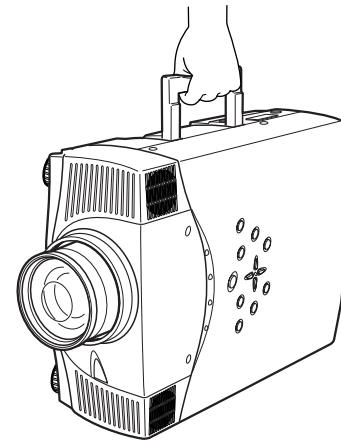


NOTE :
THIS PROJECTOR SHOULD BE SET IN THE WAY INDICATED. PROJECTION LAMP MAY MALFUNCTION.



MOVING PROJECTOR

Use Carry Handle when moving a Projector.
When moving a projector, replace lens cover and retract feet to prevent damage to lens and cabinet.
When this projector is not in use for an extended period, put it into case (dust cover) supplied with this projector.



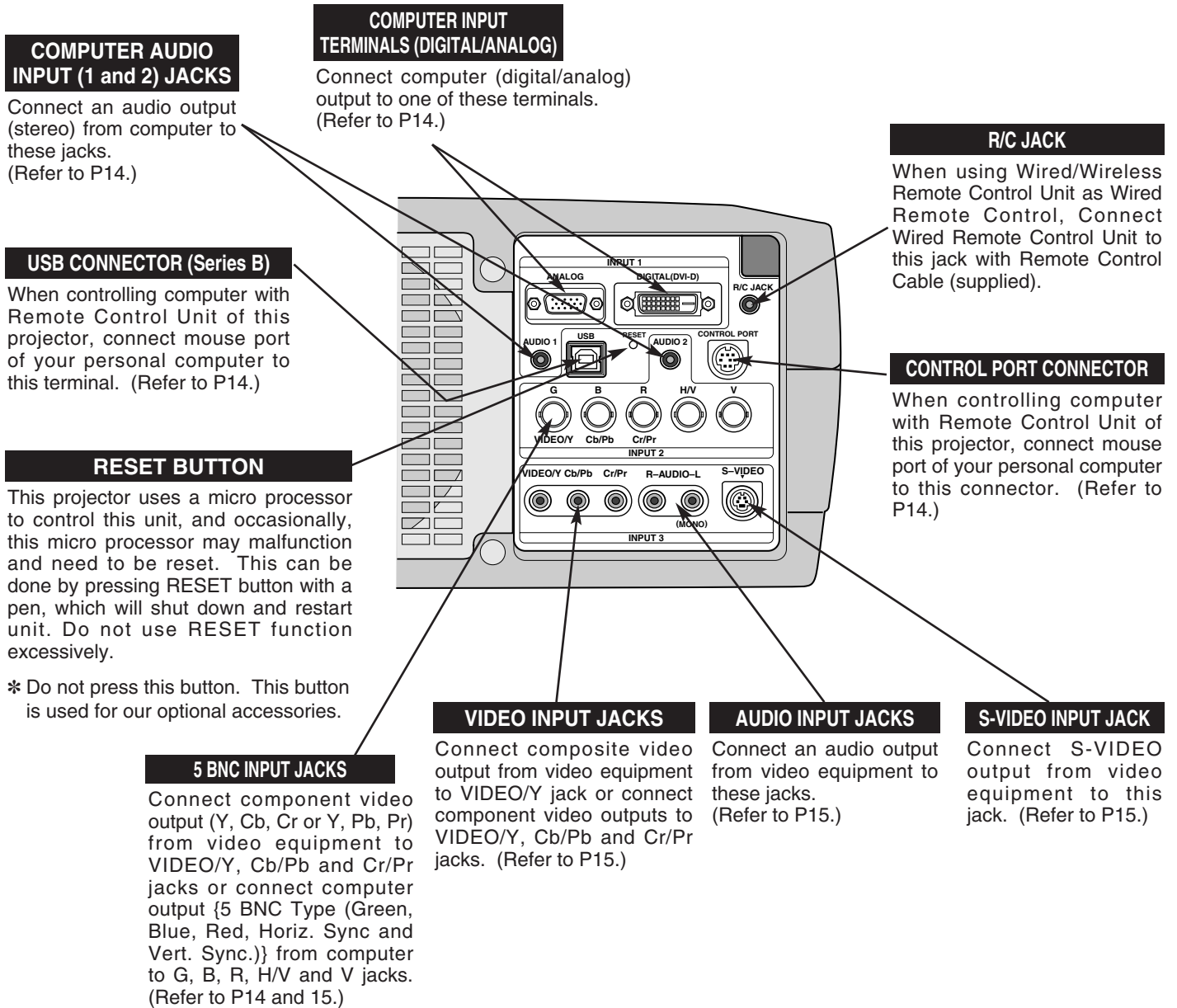
CAUTION IN CARRYING OR TRANSPORTING A PROJECTOR

- Do not drop or bump a projector, otherwise damages or malfunctions may result.
- When carrying a projector, use a suitable carrying case.
- Do not transport a projector by using a courier or transport service in an unsuitable transport case. This may cause damage to a projector. To transport a projector through a courier or transport service, consult your dealer for best way.

CONNECTING PROJECTOR

TERMINALS OF PROJECTOR

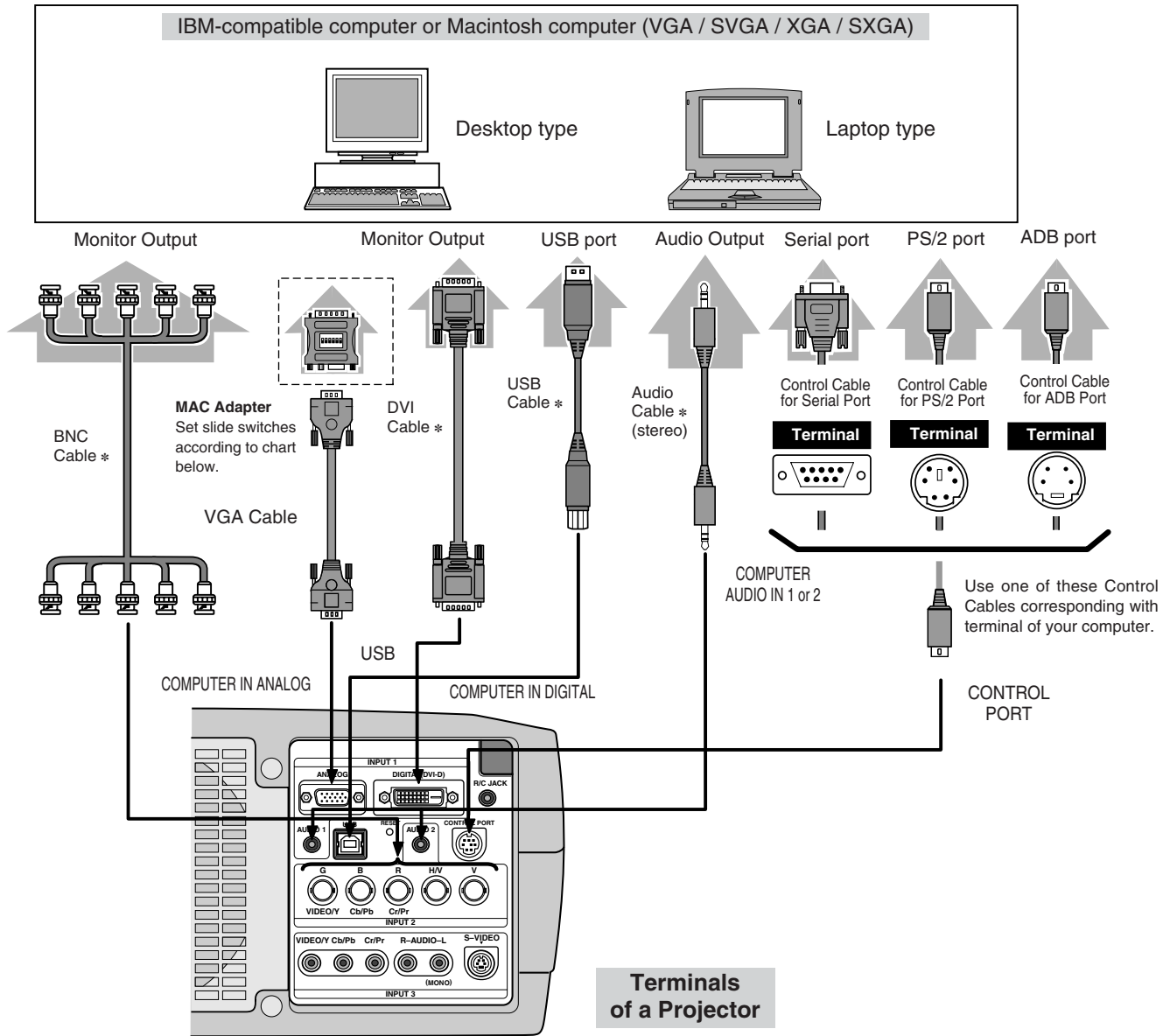
This projector has input and output terminals on its back for connecting computers and video equipment. Refer to figures on pages 13 to 15 and connect properly.



CONNECTING TO COMPUTER

Cables used for connection (* = Cable or adapter is not supplied with this projector.)

- VGA Cable (HDB 15 pin)
- DVI-Digital Cable (for Single Link T.M.D.S.) *
- BNC Cable *
- Control Cable for PS/2 Port, Serial Port or ADB Port
- USB Cable *
- MAC Adapter (When connecting to Macintosh computer)
- Audio Cables (RCA x 2 and Mini Plug (stereo) x 1) *



◆ **MAC ADAPTER**

Set switches as shown in table below depending on RESOLUTION MODE that you want to use before you turn on projector and computer.

	1	2	3	4	5	6
13" MODE (640 x 480)	ON	ON	OFF	OFF	OFF	OFF
16" MODE (832 x 624)	OFF	ON	OFF	ON	OFF	OFF
19" MODE (1024 x 768)	OFF	ON	ON	OFF	OFF	OFF
21" MODE (1152 x 870)	ON	ON	ON	ON	OFF	OFF

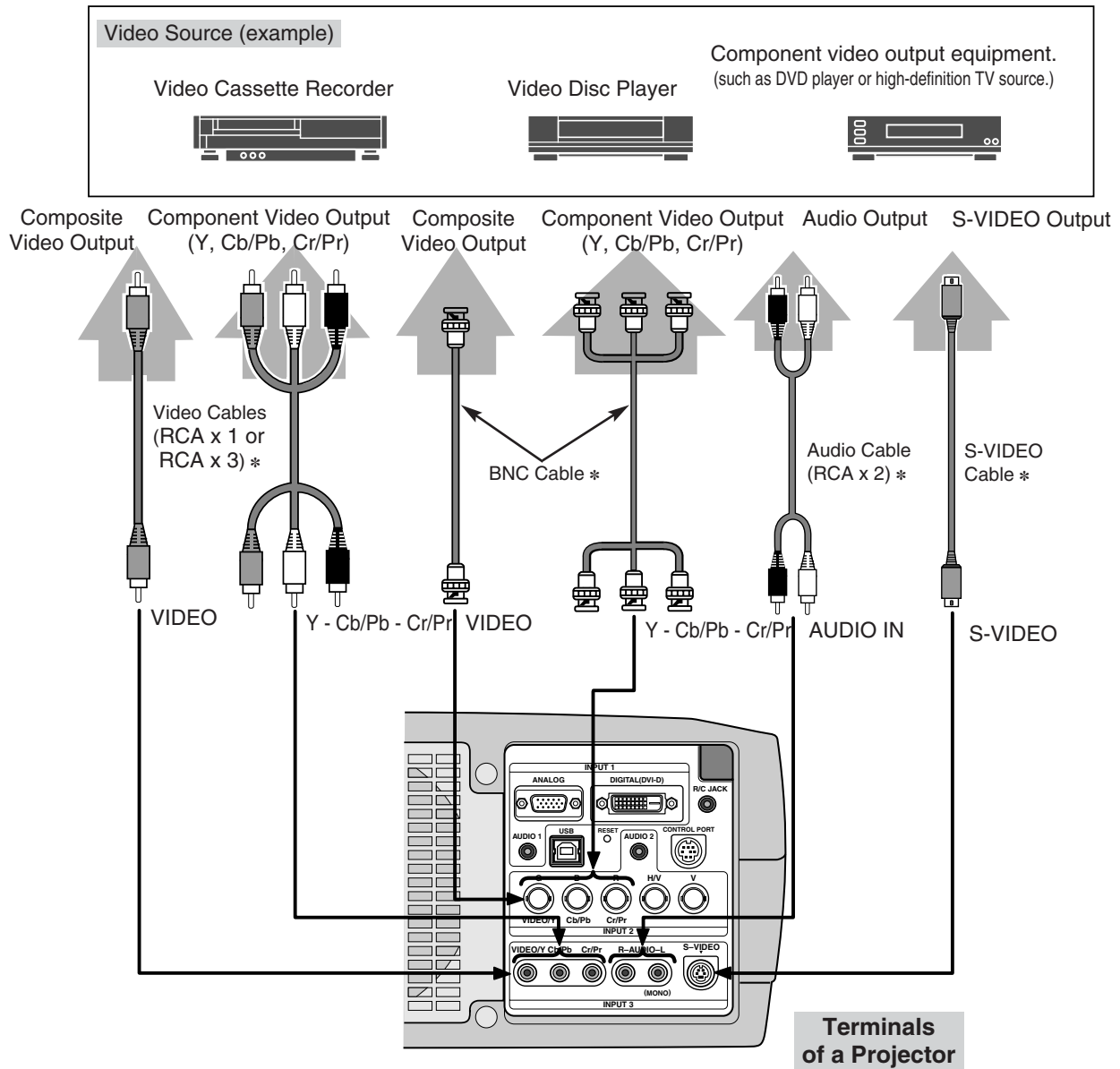
NOTE :

When connecting cable, power cords of both a projector and external equipment should be disconnected from AC outlet. Turn a projector and peripheral equipment on before computer is switched on.

CONNECTING TO VIDEO EQUIPMENT

Cables used for connection (* = Cable is not supplied with this projector.)

- Video Cable (RCA x 1 or RCA x 3) *
- BNC Cable *
- S-VIDEO Cable *
- Audio Cable (RCA x 2) *

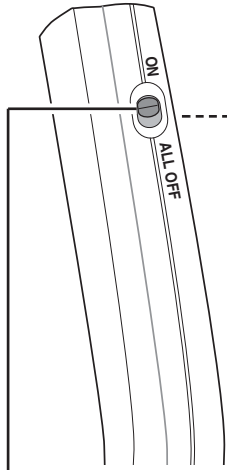


NOTE :
 When connecting cable, power cords of both a projector and external equipment should be disconnected from AC outlet.

BEFORE OPERATION

OPERATION OF REMOTE CONTROL

Left Side



ALL-OFF SWITCH

When using Remote Control Unit, turn this switch to "ON." And turn it to "ALL OFF" when it is not used.

LASER POINTER INDICATOR

Lights red while laser beam is emitted from Laser Light Window.

MENU BUTTON

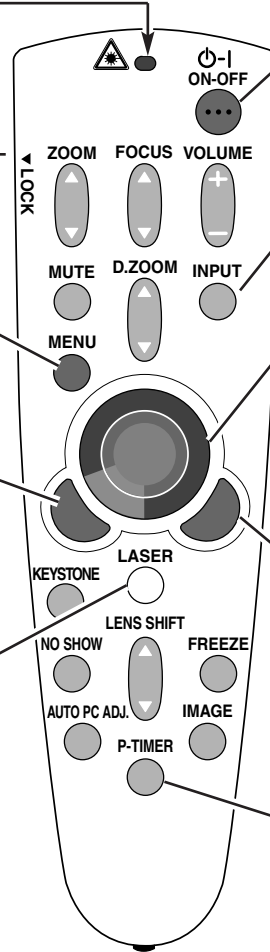
Used to select MENU operation. (P19, 20)

SELECT BUTTON

Used to execute item selected, or to expand or compress image in DIGITAL ZOOM +/- mode. (P31)
It is also used as a PC mouse in Wireless Mouse Operation. (P39)

LASER BUTTON

Used to operate Laser Pointer Function. Laser beam is emitted while pressing this button within 1 minute.
When using this Laser Pointer for more than 1 minute, release LASER button and press it again.



POWER ON-OFF BUTTON

Used to turn projector on or off. (P21)

INPUT BUTTON

Used to select input source. (P24)

POINT BUTTON

Used to move a pointer on ON-SCREEN MENU, adjust each item, or pan image in DIGITAL ZOOM +/- mode. (P31)
It is also used as a PC mouse in Wireless Mouse Operation. (P39)

* When pressing center of this button, it works as SELECT button.

RIGHT CLICK BUTTON

Used as a PC mouse in Wireless Mouse Operation. (P39)

P-TIMER BUTTON

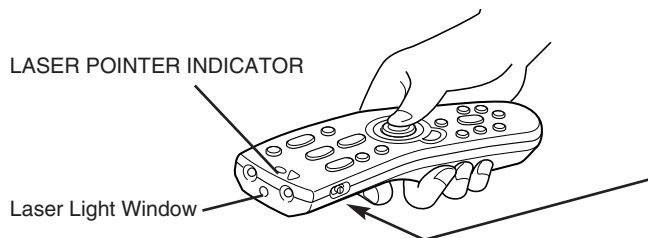
Used to operate P-TIMER function. (P23)

LASER POINTER FUNCTION

This Remote Control Unit emits a laser beam as laser pointer function from Laser Light Window. When LASER button is pressed, laser light goes on. And when LASER button is being pressed for more than 1 minute or LASER button is released, light goes off. LASER POINTER INDICATOR lights RED and Laser is emitted with RED light to indicate laser beam is being emitted.

Laser emitted is a class II laser; therefore, do not look into Laser Light Window or shine laser beam on yourself or other people. Three marks bellow are caution labels for laser beam.

CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result hazardous radiation exposure.

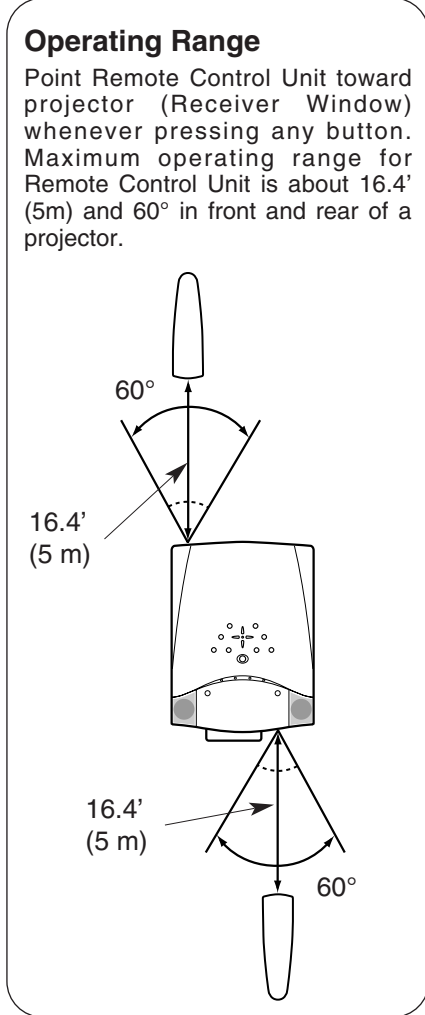
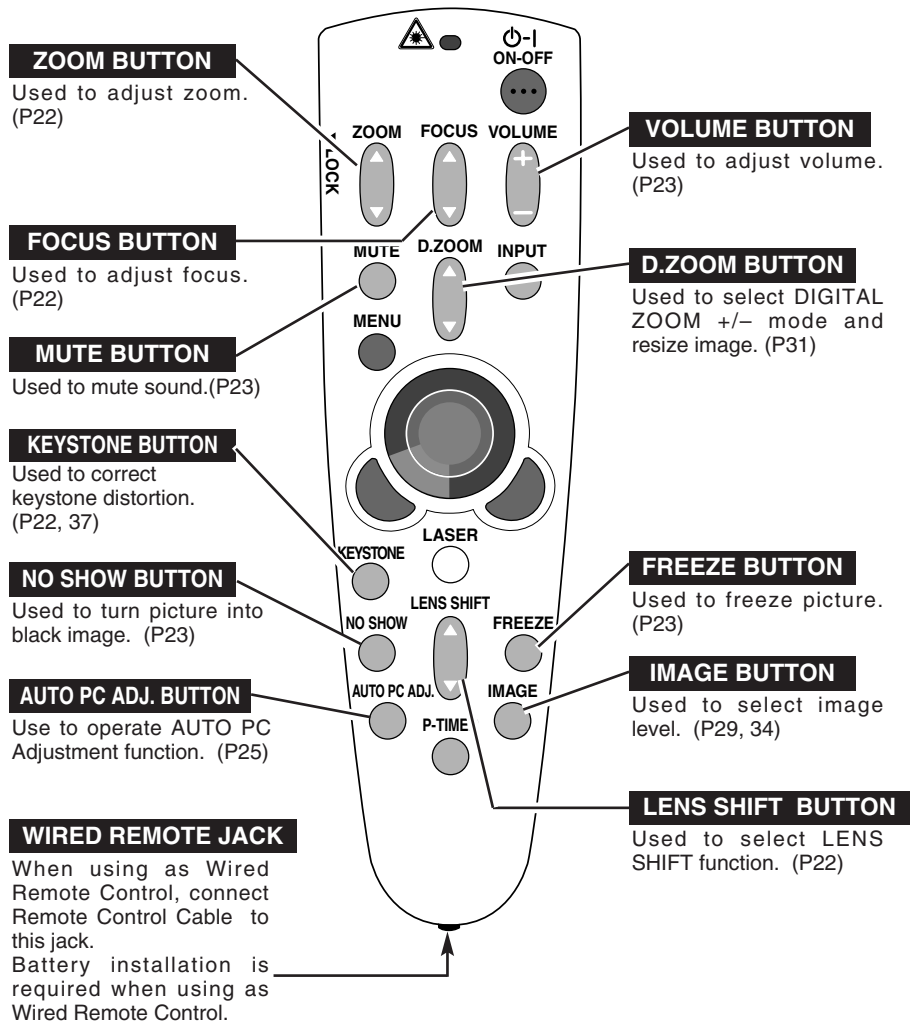


These caution labels are put on remote control.

<p>CAUTION</p> <p>LASER RADIATION- DO NOT STARE INTO BEAM</p> <p>MAX OUTPUT : 1mW WAVE LENGTH : 650~20nm CLASS II LASER PRODUCT</p> <p>This product is complied with 21 CFR part 1040.10</p>	<p>LASER RADIATION DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT LASER-STRAHLUNG NICHT IN DEN STRAHL BLICKEN LASER KLASSE 2 レーザー放射 クラス2 レーザ製品 ビームをのぞき込まないこと IEC0825-1, Am1 1997 MAX OUTPUT (最大出力) : 1mW WAVE LENGTH (波長) : 650~20nm</p>
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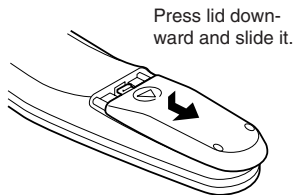


AVOID EXPOSURE-LASER RADIATION IS EMITTED FROM THIS APERTURE
レーザー光の出口
ビームをのぞき込まないこと

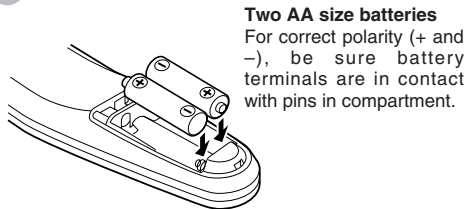


Remote Control Batteries Installation

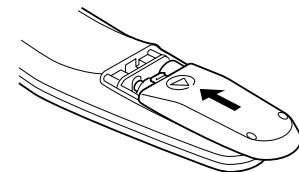
1 Remove battery compartment lid.



2 Slide batteries into compartment.



3 Replace compartment lid.

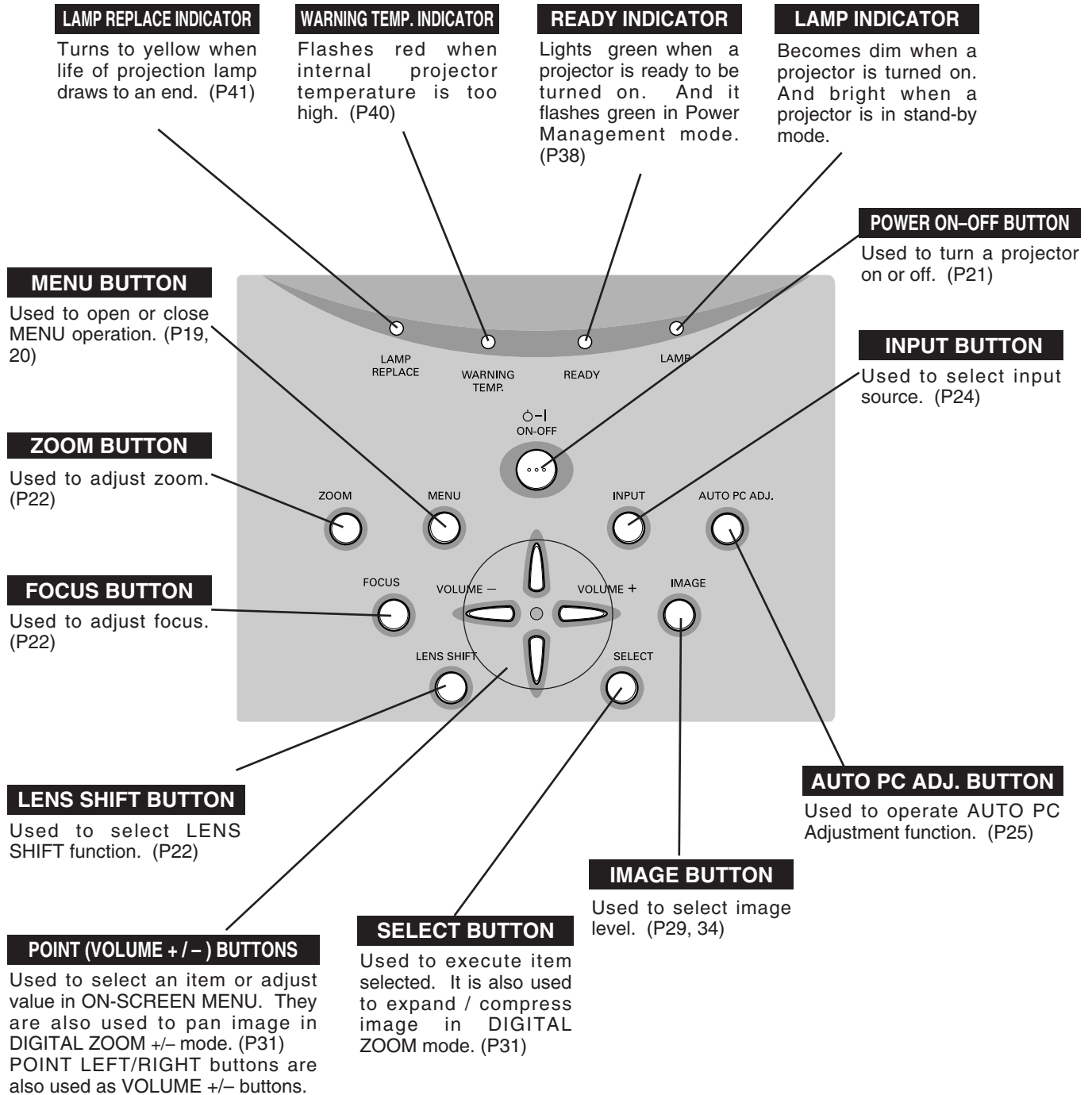


To insure safe operation, please observe following precautions :

- Use (2) AA, UM3 or R06 type alkaline batteries.
- Replace two batteries at same time.
- Do not use a new battery with an used battery.
- Avoid contact with water or liquid.
- Do not expose Remote Control Unit to moisture, or heat.
- Do not drop Remote Control Unit.
- If a battery has leaked on Remote Control Unit, carefully wipe case clean and install new batteries.
- Danger of explosion if battery is incorrectly replaced.
- Dispose of used batteries according to batteries manufacturers instructions and local rules.

TOP CONTROLS AND INDICATORS

This projector has CONTROL BUTTONS (TOP CONTROLS) and INDICATORS on its top.



OPERATING ON-SCREEN MENU

HOW TO OPERATE ON-SCREEN MENU

You can control and adjust this projector through ON-SCREEN MENU. Refer to following pages to operate each adjustment on ON-SCREEN MENU.

1 DISPLAY MENU

Press MENU button to display ON-SCREEN MENU.

2 MOVING POINTER

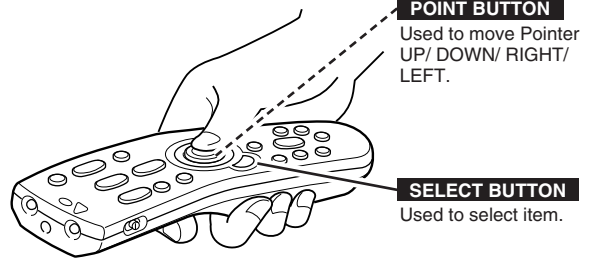
Move pointer (* see below) or adjust value of item by pressing POINT button(s) on Top Control or on Remote Control Unit.

* Pointer is icon on ON-SCREEN MENU to select item. See figures on section "FLOW OF ON-SCREEN MENU OPERATION" below.

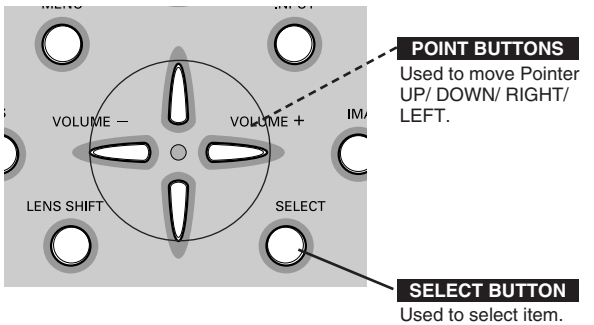
3 SELECT ITEM

Select item or set selected function by pressing SELECT button.

WIRELESS REMOTE CONTROL



TOP CONTROL



FLOW OF ON-SCREEN MENU OPERATION

Display ON-SCREEN MENU

1 Press MENU button to display ON-SCREEN MENU (MENU BAR). A red frame is POINTER.

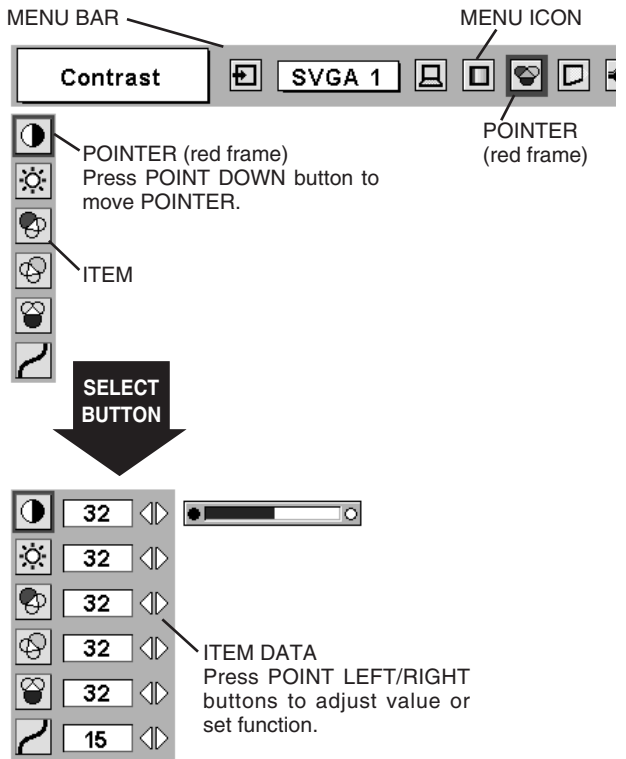
Select Menu to be adjusted

2 Move POINTER (red frame) to MENU ICON that you want to select by pressing POINT RIGHT / LEFT buttons.

Control or adjust item through ON-SCREEN MENU

3 Press POINT DOWN button and move POINTER (red frame or red arrow) to ITEM that you want to adjust, and then press SELECT button to show ITEM DATA.

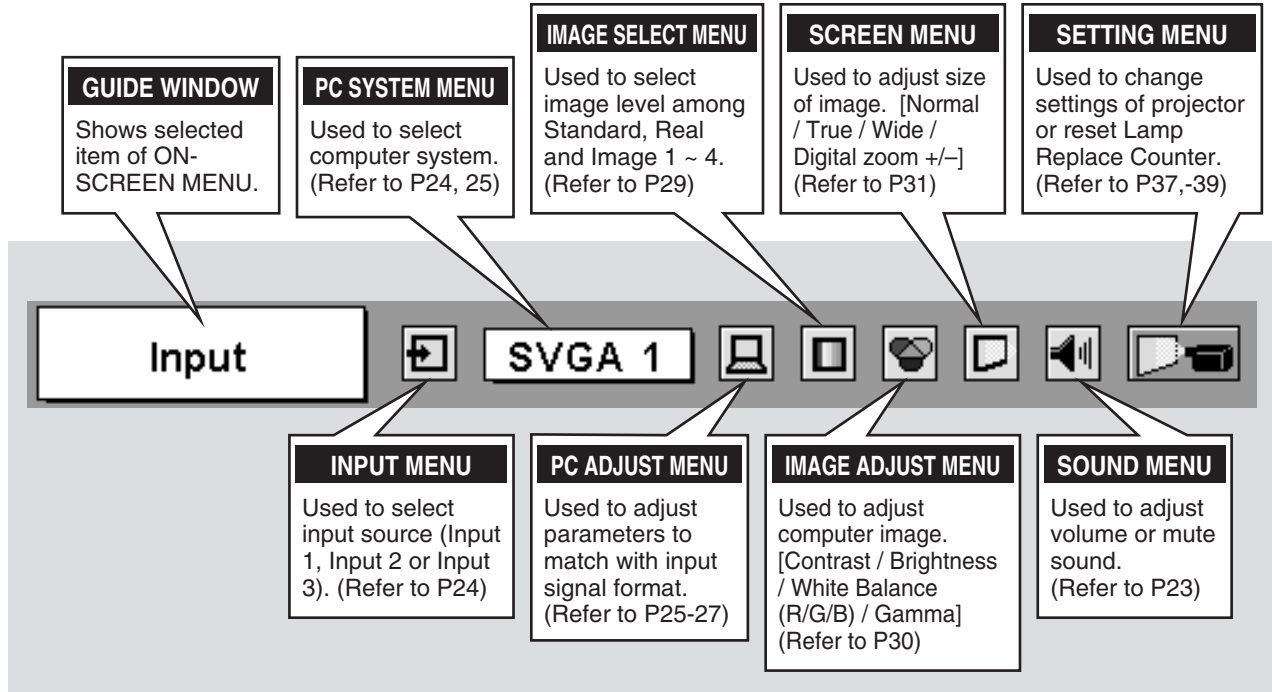
4 Adjust ITEM DATA by pressing POINT RIGHT / LEFT buttons. Refer to following pages for details of respective adjustments.



MENU BAR

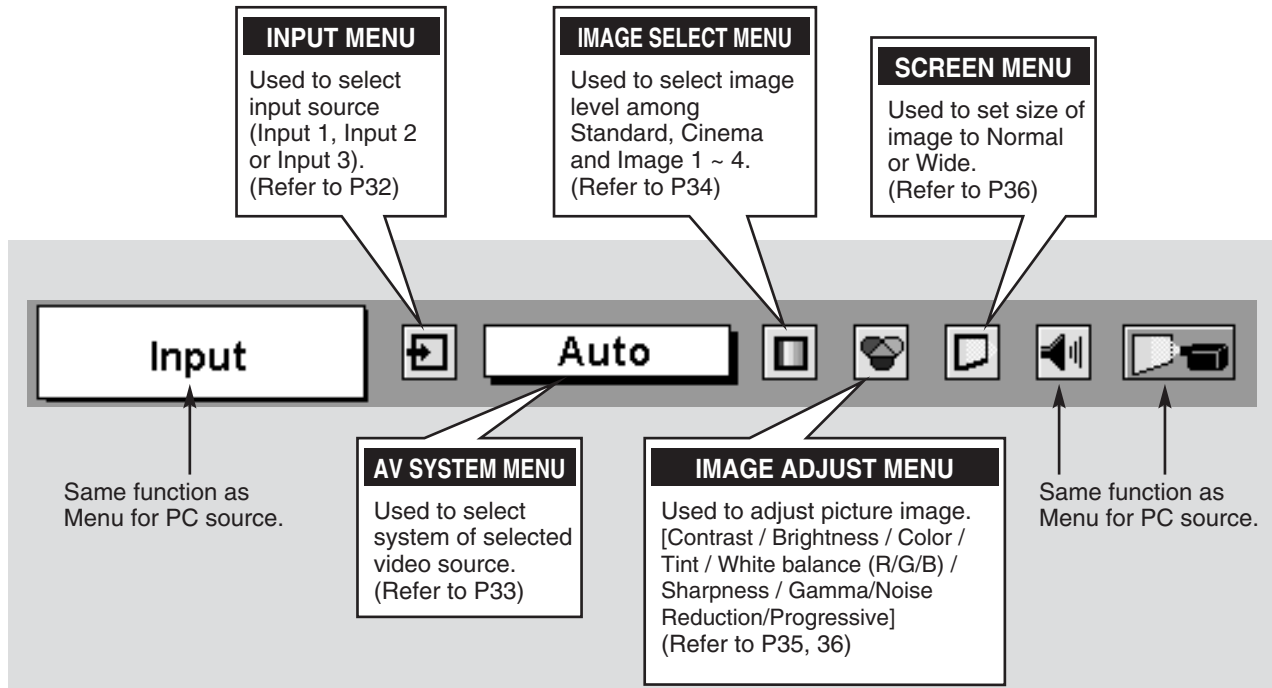
FOR PC SOURCE

Press MENU BUTTON while connecting to PC input source.



FOR VIDEO SOURCE

Press MENU BUTTON while connecting to VIDEO input source.



TURNING ON / OFF PROJECTOR

TURNING ON PROJECTOR

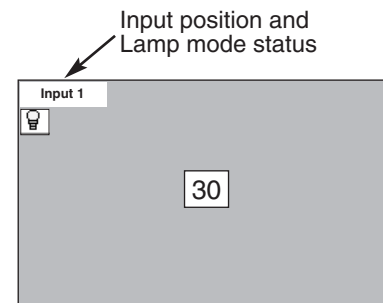
1 Complete peripheral connections (with Computer, VCR, etc.) before turning on projector. (Refer to "CONNECTING TO PROJECTOR" on pages 13~15 for connecting that equipment.)

2 Connect a projector's AC Power Cord into an AC outlet. LAMP Indicator lights RED, and READY Indicator lights GREEN.

NOTE : When "On start" function is ON, this projector is turned on automatically by connecting AC Power Cord to an AC outlet. (Refer to pages 37, 38.)

3 Press POWER ON-OFF button on Top Control or on Remote Control Unit to ON. LAMP Indicator dims, and Cooling Fans start to operate. Preparation Display appears on a screen and count-down starts. Signal from PC or Video source appears after 30 seconds.

Current Input position and Lamp mode status are also displayed on screen for 5 seconds. (Refer to "LAMP MODE" on page 38.)



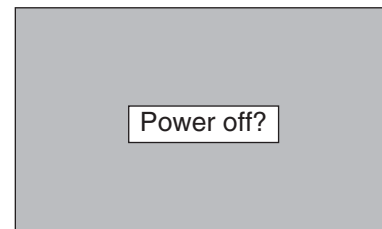
Preparation Display disappears after 30 seconds.

TURNING OFF PROJECTOR

1 Press POWER ON-OFF button on Top Control or on Remote Control Unit, and a message "Power off?" appears on a screen.

2 Press POWER ON-OFF button again to turn off projector. LAMP Indicator lights bright and READY Indicator turns off. After projector is turned off, Cooling Fans operate (for 90 seconds). During this "Cooling Down" period, this appliance cannot be turned on.

3 When projector has cooled down, READY Indicator lights GREEN again and you can turn projector on. After cooling down completely, disconnect AC Power Cord.



Message disappears after 4 seconds.



TO MAINTAIN LIFE OF LAMP, ONCE YOU TURN PROJECTOR ON, WAIT AT LEAST 5 MINUTES BEFORE TURNING IT OFF.

When "Power Management" function is ON, projector detects signal interruption and turns off Projection Lamp automatically. Refer to "Power Management" on page 37.

When WARNING TEMP. Indicator flashes red, projector is automatically turned off. Wait at least 5 minutes before turning on projector again.

When WARNING TEMP. Indicator continues to flash, follow procedures below:

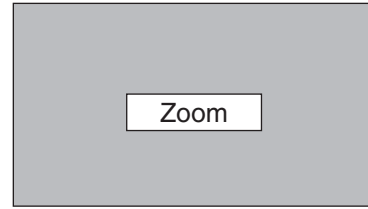
1. Press POWER ON-OFF button to turn a projector off and disconnect AC Power Cord from an AC outlet.
2. Check Air Filters for dust accumulation.
3. Clean Air Filters. (See "AIR FILTER CARE AND CLEANING" section on page 40.)
4. Turn a projector on again.

If WARNING TEMP. Indicator should still continue to flash, contact sales dealer where you purchased this projector or service center.

ADJUSTING SCREEN

ZOOM ADJUSTMENT

- 1 Press ZOOM button on Top Control or ZOOM ▲/▼ button on Remote Control Unit. Message "Zoom" is displayed.
- 2 Press ZOOM ▲ button or POINT UP button to make image larger, and press ZOOM ▼ button or POINT DOWN button to make image smaller.



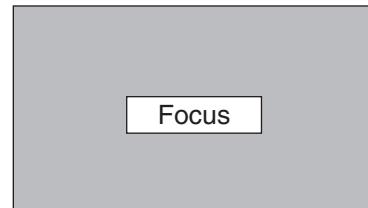
Message disappears after 4 seconds.

FOCUS ADJUSTMENT

- 1 Press FOCUS button on Top Control or FOCUS ▲/▼ button on Remote Control Unit. Message "Focus" is displayed.
- 2 Adjust focus of image by pressing FOCUS ▲/▼ button or POINT UP/DOWN button(s).

NOTE;

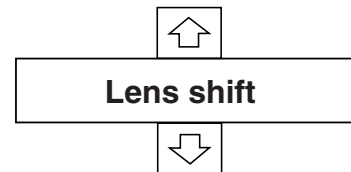
Focus adjustment may not function properly if the image is corrected by KEYSTONE adjustment.



Message disappears after 4 seconds.

LENS SHIFT ADJUSTMENT

- 1 Press LENS SHIFT button on Top Control or LENS SHIFT ▲/▼ button on Remote Control Unit. Message "Lens shift" is displayed.
- 2 Press POINT UP button or LENS SHIFT ▲ button to move image up, press POINT DOWN or LENS SHIFT ▼ button to move image down.



KEYSTONE ADJUSTMENT

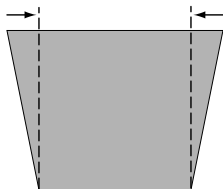
If a projected picture has keystone distortion, correct the image with KEYSTONE adjustment.

- 1 Press KEYSTONE button on Remote Control Unit or select Keystone on SETTING menu. (Refer to page 37.) Keystone dialog box appears.
- 2 Correct keystone distortion by pressing POINT UP/DOWN/LEFT/RIGHT button(s). Press POINT UP button to reduce the upper part of the image, and press POINT DOWN button to reduce the lower part. Press POINT LEFT button to reduce the left part, and press POINT RIGHT button to reduce the right part.

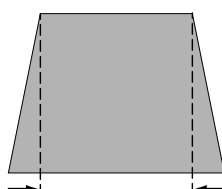


- Arrows are white in no correction.
- Arrow(s) of direction being corrected turn(s) red.
- Arrow(s) disappear(s) at the maximum correction.

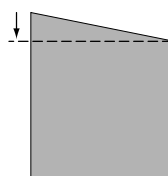
Reduce the upper width with POINT UP button.



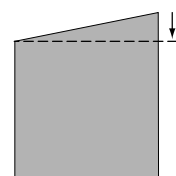
Reduce the lower width with POINT DOWN button.



Reduce the left part with POINT LEFT button.



Reduce the right part with POINT RIGHT button.

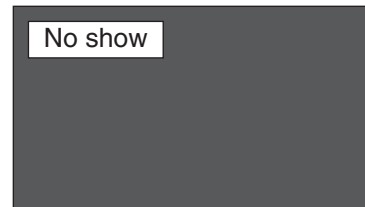


PICTURE FREEZE FUNCTION

Press FREEZE button on Remote Control Unit to freeze picture on-screen. To cancel FREEZE function, press FREEZE button again or press any other button except POINT / SELECT / RIGHT CLICK / LASER button.

NO SHOW FUNCTION

Press NO SHOW button on Remote Control Unit to black out image. To restore to normal, press NO SHOW button again or press any other button except POINT / SELECT / RIGHT CLICK / LASER button.



Message disappears after 4 seconds.

P-TIMER FUNCTION

Press P-TIMER button on Remote Control unit. Timer display "00 : 00" appears on screen and timer starts to count time (00 : 00 ~ 59 : 59). To stop P-TIMER display, press P-TIMER button. And then, press P-TIMER button again to cancel P-TIMER function.



SOUND ADJUSTMENT

DIRECT OPERATION

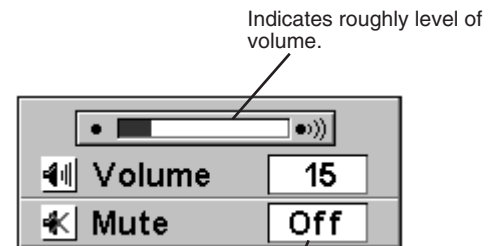
Volume

Press VOLUME (+/-) button(s) on Top Control or on Remote Control Unit to adjust volume. Volume dialog box appears on screen for a few seconds.

(+) button to increase volume, and (-) button for decreasing.

Mute

Press MUTE button on Remote Control Unit to cut off sound. To restore sound to its previous level, press MUTE button again or press Volume (+/-) button(s).



Indicates roughly level of volume.

Press MUTE button to set Mute function On or Off.

Display disappears after 4 seconds.

MENU OPERATION

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to SOUND Menu icon.

2 Press POINT DOWN button to move a red frame pointer to item that you want to select, and then press SELECT button.

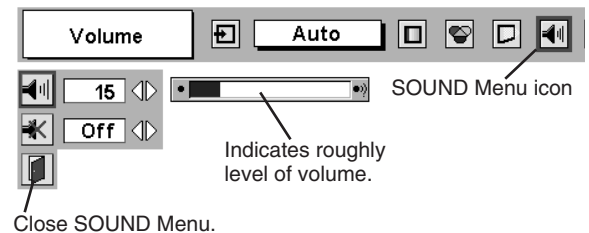


To increase volume, press POINT RIGHT button, and press POINT LEFT button for decreasing.



Press POINT LEFT/RIGHT button(s) to cut off sound. Dialog box display is changed to "On" and sound is cut off. To restore sound to its previous level, press POINT LEFT/RIGHT button(s) again.

SOUND MENU



Indicates roughly level of volume.

Close SOUND Menu.

COMPUTER INPUT

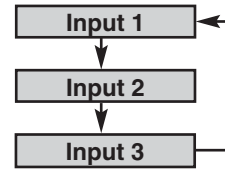
SELECTING INPUT SOURCE

DIRECT OPERATION

Choose Computer by pressing INPUT button on Top Control or on Remote Control Unit.

If projector cannot reproduce proper image, select correct input source through MENU OPERATION (see below).

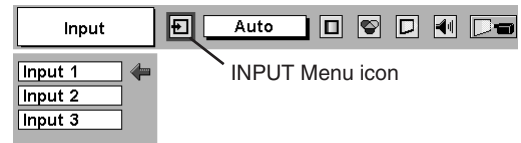
INPUT button



MENU OPERATION

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to select Input and press SELECT button. Another dialog box INPUT SELECT Menu will appear.

2 Press POINT DOWN button and a red-arrow icon will appear. Move arrow to INPUT source that you want to select, and then press SELECT button.



SELECTING COMPUTER SYSTEM

WHEN SELECT INPUT 1 (COMPUTER INPUT TERMINALS)

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.

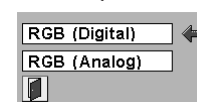
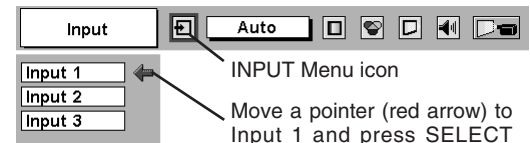
2 Press POINT DOWN button to move a red arrow pointer to Input 1 and then press SELECT button. Source Select Menu will appear.

3 Move a pointer to either Digital or Analog and then press SELECT button.

Digital When your computer is connected to COMPUTER INPUT (DIGITAL) terminal, select RGB (Digital).

Analog When your computer is connected to COMPUTER INPUT (ANALOG) terminal, select RGB (Analog).

INPUT MENU



Source Select Menu

Move a pointer to Digital or Analog and press SELECT button.

WHEN SELECT INPUT 2 (5 BNC INPUT JACKS)

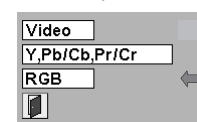
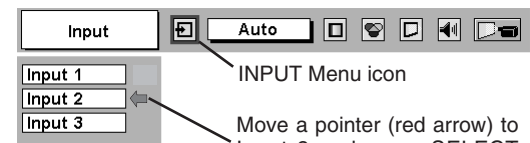
When connect a computer output [5 BNC Type (Green, Blue, Red, Horiz. Sync and Vert. Sync.)] from a computer to G, B, R, H/HV and V jacks.

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.

2 Press POINT DOWN button to move a red arrow pointer to Input 2 and then press SELECT button. Source Select Menu will appear.

3 Press POINT DOWN button and a red-arrow icon will appear. Move arrow to "RGB", and then press SELECT button.

INPUT MENU



Source Select Menu

Move a pointer to RGB and press SELECT button.

AUTOMATIC MULTI-SCAN SYSTEM

This projector automatically tunes to most different types of computers based on VGA, SVGA, XGA or SXGA (refer to "COMPATIBLE COMPUTER SPECIFICATION" on page 28). When selecting Computer, this projector automatically tunes to incoming signal and projects proper image without any special setting. (Some computers need setting manually.)

Note : Projector may display one of following messages.

Auto

When projector cannot recognize connected signal as PC system provided in this projector, Auto PC Adjustment function operates to adjust projector and message "Auto" is displayed on SYSTEM Menu icon.

When image is not provided properly, manual adjustment is required. (Refer to P26 and 27.)

—

There is no signal input from computer. Make sure connection of computer and a projector is set correctly. (Refer to TROUBLESHOOTING on page 42.)

D-VGA, D-SVGA or D-XGA

When digital computer signal is received on DVI terminal, above message is displayed on PC SYSTEM Menu icon.

SELECT COMPUTER SYSTEM MANUALLY

This projector automatically selects PC system among those provided in this projector and PC system can be also selected manually.

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to PC SYSTEM Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to system that you want to set, and then press SELECT button.

PC SYSTEM MENU



PC SYSTEM Menu icon
Displays system being selected.

PC SYSTEM MENU



PC SYSTEM Menu icon
Displays system being selected.

Systems on this dialog box can be selected.

Custom Mode (1~5) set in PC ADJUST Menu. (P26, 27)

PC ADJUSTMENT

AUTO PC ADJUSTMENT

Auto PC Adjustment function is provided to automatically adjust Fine sync, Total dots and Picture Position to conform to your computer. Auto PC Adjustment function can be operated as follows.

Auto PC Adj.

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to PC ADJUST Menu icon.
- 2 Press POINT DOWN button to move a red frame pointer to AUTO PC Adj. icon and then press SELECT button twice. This Auto PC Adjustment can be also executed by pressing AUTO PC ADJ. button on Remote Control Unit.

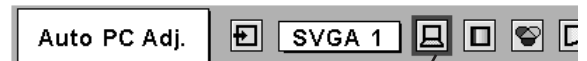
Store adjustment parameters.

Adjustment parameters from Auto PC Adjustment can be memorized in this projector. Once parameters are memorized, setting can be done just by selecting Mode in PC SYSTEM Menu (P25). Refer to step 3 of MANUAL PC ADJUSTMENT section (P27).

NOTE

- Fine sync, Total dots and Picture Position of some computers can not be fully adjusted with this Auto PC Adjustment function. When image is not provided properly through this function, manual adjustments are required. (Refer to page 26, 27.)
- Auto PC Adjustment function cannot be operated in Digital Signal input on DVI terminal and "RGB", "720p (HDTV)", "1035i (HDTV)" or "1080i (HDTV)" is selected on PC SYSTEM Menu.

PC ADJUST MENU



PC ADJUST Menu icon

Move a red frame pointer to AUTO PC Adj. icon and press SELECT button.

MANUAL PC ADJUSTMENT

This projector can automatically tune to display signals from most personal computers currently distributed. However, some computers employ special signal formats which are different from standard ones and may not be tuned by Multi-Scan system of this projector. If this happens, projector cannot reproduce a proper image and image may be recognized as a flickering picture, a non-synchronized picture, a non-centered picture or a skewed picture.

This projector has a Manual PC Adjustment to enable you to precisely adjust several parameters to match with those special signal formats. This projector has 5 independent memory areas to memorize those parameters manually adjusted. This enables you to recall setting for a specific computer whenever you use it.

Note : This PC ADJUST Menu cannot be operated when in digital signal input on DVI terminal and "RGB" is selected on PC SYSTEM MENU (P25).

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to PC ADJUST Menu icon.
- 2 Press POINT DOWN button to move a red frame pointer to item that you want to adjust and then press SELECT button. Adjustment dialog box will appear. Press POINT LEFT/RIGHT button to adjust value.



Fine sync

Adjusts an image as necessary to eliminate flicker from display. Press POINT LEFT/RIGHT button to adjust value.(From 0 to 31.)



Total dots

Number of total dots in one horizontal period. Press POINT LEFT/RIGHT button(s) and adjust number to match your PC image.



Horizontal

Adjusts horizontal picture position. Press POINT LEFT/RIGHT button(s) to adjust position.



Vertical

Adjusts vertical picture position. Press POINT LEFT/RIGHT button(s) to adjust position.



Current mode

Press SELECT button to show information of computer selected.



Clamp

Adjusts clamp position. When image has a dark bar(s), try this adjustment.

PC ADJUST MENU

Auto PC Adj. SVGA 1

PC ADJUST Menu icon

Move a red frame icon to item and press SELECT button.

Shows status (Stored / Free) of selected Mode.

Selected Mode

Fine sync Mode 1 Stored

Press POINT LEFT/RIGHT button to adjust value.

015

Press SELECT button at this icon to adjust "Clamp," "Display area (H/V)" or set "Full screen."

Current mode

H-Sync freq.	48.5
V-Sync freq.	60

Press SELECT button at Current mode icon to show information of computer connected.

Display area

Selects area displayed with this projector. Select resolution at Display area dialog box.

Display area H

Adjustment of horizontal area displayed with this projector. Press POINT LEFT/RIGHT button(s) to decrease/increase value and then press SELECT button.

Display area V

Adjustment of vertical area displayed with this projector. Press POINT LEFT/RIGHT button(s) to decrease/increase value and then press SELECT button.

Full screen

Press POINT LEFT/RIGHT button(s) to switch Full screen function to "On" or "Off." Set "On" to resize image with 4 x 3 aspect ratio to fit screen.

NOTE : Display area (H/V) and Full screen cannot be adjusted when "1035i (HDTV)" or "1080i (HDTV)" is selected on PC SYSTEM Menu (P25).

3 Store

To store adjustment parameters, move a red frame pointer to Store icon and then press SELECT button. Move a red arrow pointer to any of Mode 1 to 5 that you want to store and then press SELECT button.

Mode free

To clear adjustment parameters previously set, move a red frame pointer to Mode free icon and then SELECT button. Move a red arrow pointer to Mode that you want to clear and then press SELECT button.

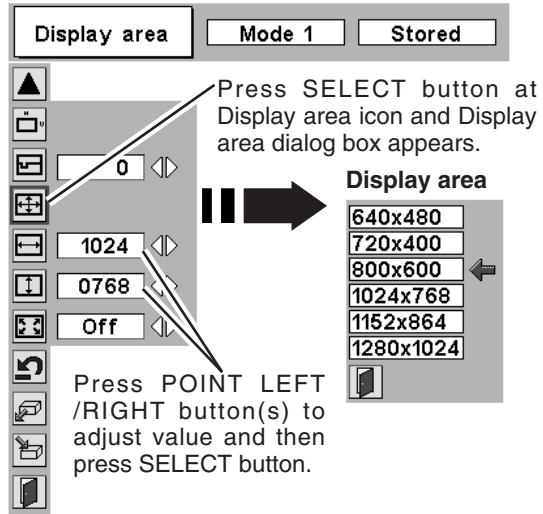
Other icons operates as follows.

Reset

Reset all adjust parameters on adjustment dialog box to previous figure.

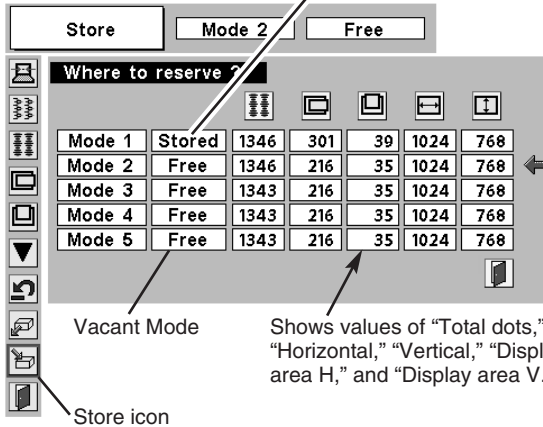
Quit

Closes PC ADJUST MENU.

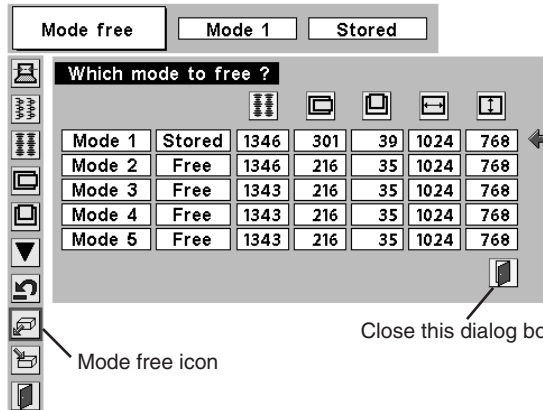


To store adjustment data.

This Mode has parameters being stored.



To clear adjustment data.



COMPUTER INPUT

COMPATIBLE COMPUTER SPECIFICATIONS

Basically this projector can accept a signal from all computers with V, H-Frequency mentioned below and less than 160 MHz of Dot Clock.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
VGA 1	640 x 480	31.47	59.88	XGA 10	1024 x 768	62.04	77.07
VGA 2	720 x 400	31.47	70.09	XGA 11	1024 x 768	61.00	75.70
VGA 3	640 x 400	31.47	70.09	XGA 12	1024 x 768 (Interlace)	35.522	43.48
VGA 4	640 x 480	37.86	74.38	XGA 13	1024 x 768	46.90	58.20
VGA 5	640 x 480	37.86	72.81	XGA 14	1024 x 768	47.00	58.30
VGA 6	640 x 480	37.50	75.00	XGA15	1024 x 768	58.03	72.0
VGA 7	640 x 480	43.269	85.00	MAC 19	1024 x 768	60.24	75.08
MAC LC13	640 x 480	34.97	66.60	MAC 21	1152 x 870	68.68	75.06
MAC 13	640 x 480	35.00	66.67	SXGA 1	1152 x 864	64.20	70.40
RGB	(Interlace)	15.734	30	SXGA 2	1280 x 1024	62.50	58.60
RGB	(Interlace)	15.625	25	SXGA 3	1280 x 1024	63.90	60.00
SVGA 1	800 x 600	35.156	56.25	SXGA 4	1280 x 1024	63.34	59.98
SVGA 2	800 x 600	37.88	60.32	SXGA 5	1280 x 1024	63.74	60.01
SVGA 3	800 x 600	46.875	75.00	SXGA 6	1280 x 1024	71.69	67.19
SVGA 4	800 x 600	53.674	85.06	SXGA 7	1280 x 1024	81.13	76.107
SVGA 5	800 x 600	48.08	72.19	SXGA 8	1280 x 1024	63.98	60.02
SVGA 6	800 x 600	37.90	61.03	SXGA 9	1280 x 1024	79.976	75.025
SVGA 7	800 x 600	34.50	55.38	SXGA 10	1280 x 960	60.00	60.00
SVGA 8	800 x 600	38.00	60.51	SXGA 11	1152 x 900	61.20	65.20
SVGA 9	800 x 600	38.60	60.31	SXGA 12	1152 x 900	71.40	75.60
SVGA 10	800 x 600	32.70	51.09	SXGA 13	1280 x 1024 (Interlace)	50.00	43.00
SVGA 11	800 x 600	38.00	60.51	SXGA 14	1280 x 1024 (Interlace)	50.00	47.00
MAC 16	832 x 624	49.72	74.55	SXGA 15	1280 x 1024	63.37	60.01
XGA 1	1024 x 768	48.36	60.00	SXGA 16	1280 x 1024	76.97	72.00
XGA 2	1024 x 768	68.677	84.997	SXGA 17	1152 x 900	61.85	66.00
XGA 3	1024 x 768	60.023	75.03	SXGA 18	1280 x 1024 (Interlace)	46.43	43.35
XGA 4	1024 x 768	56.47	70.07	SXGA 19	1280 x 1024	63.79	60.18
XGA 5	1024 x 768	60.31	74.92	MAC	1280 x 960	75.00	75.08
XGA 6	1024 x 768	48.50	60.02	MAC	1280 x 1024	80.00	75.08
XGA 7	1024 x 768	44.00	54.58	720p (HDTV)	(Progressive)	45.00	60.00
XGA 8	1024 x 768	63.48	79.35	1035i (HDTV)	(Interlace)	33.75	30.00
XGA 9	1024 x 768 (Interlace)	36.00	43.59	1080i (HDTV)	(Interlace)	33.75	30.00

When a input signal is digital from DVI terminal, refer to chart below.

ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)	ON-SCREEN DISPLAY	RESOLUTION	H-Freq. (kHz)	V-Freq. (Hz)
D-VGA	640 x 480	31.469	59.940	D-XGA	1024 x 768	48.363	60.004
D-SVGA	800 x 600	37.879	60.317				

NOTE : Specifications are subject to change without notice.

PICTURE IMAGE ADJUSTMENTS

IMAGE LEVEL SELECT (DIRECT)

Select image level among Standard, Real, Image 1, Image 2, Image 3 and Image 4 by pressing IMAGE button on Top Control or on Remote Control Unit.

Standard

Normal picture level preset on this projector.

Real

Picture level with improved halftone for graphics.

IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P30).

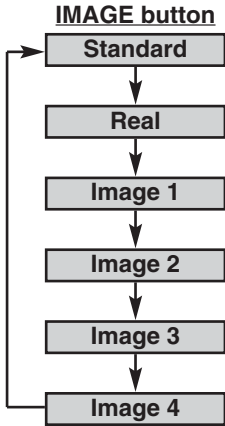


IMAGE LEVEL SELECT (MENU)

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to IMAGE SELECT Menu icon.
- 2 Press POINT DOWN button to move a red frame pointer to level that you want to set and then press SELECT button.

Standard

Normal picture level preset on this projector.

Real

Picture level with improved halftone for graphics.

IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P30).

IMAGE SELECT MENU

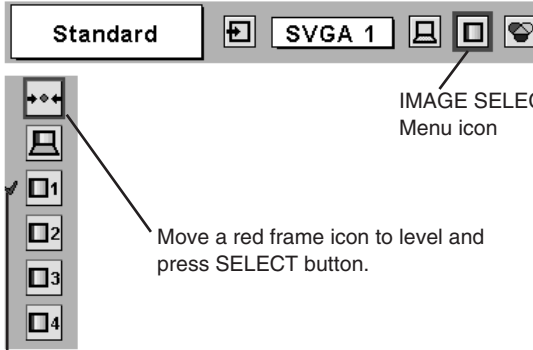


IMAGE SELECT Menu icon

Move a red frame icon to level and press SELECT button.

Level being selected.

IMAGE LEVEL ADJUSTMENT

1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to IMAGE ADJUST Menu icon.

2 Press POINT DOWN button to move a red frame pointer to item that you want to adjust and then press SELECT button. Level of each item is displayed. Adjust each level by pressing POINT LEFT/RIGHT button(s).

Contrast

Press POINT LEFT button to decrease contrast, and POINT RIGHT button to increase contrast. (From 0 to 63.)

Brightness

Press POINT LEFT button to adjust image darker, and POINT RIGHT button to adjust brighter. (From 0 to 63.)

White balance (Red)

Press POINT LEFT button to lighten red tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

White balance (Green)

Press POINT LEFT button to lighten green tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

White balance (Blue)

Press POINT LEFT button to lighten blue tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

Gamma

Press either POINT LEFT button or POINT RIGHT button to obtain better balance of contrast. (From 0 to 15.)

3 **Store**

To store manually preset image, move a red frame pointer to Store icon and press SELECT button. Image Level Menu will appear. Move a red frame pointer to Image 1 to 4 where you want to set and then press SELECT button.

Other icons operates as follows.

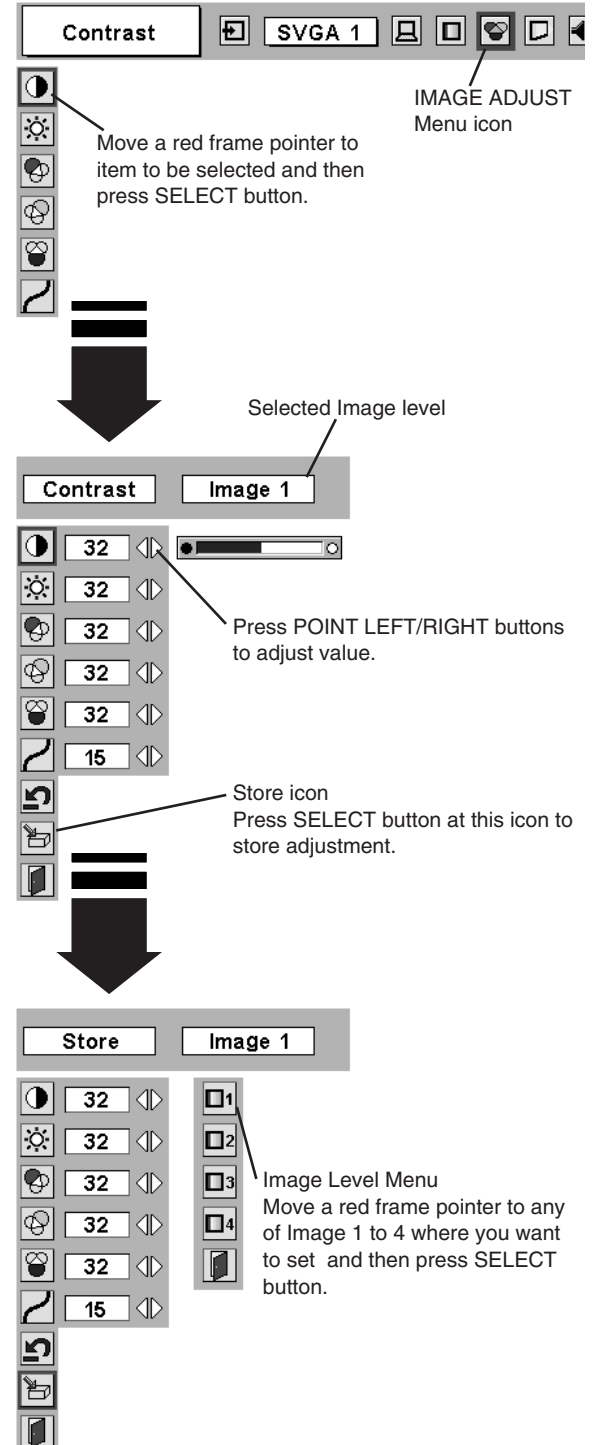
Reset

Reset all adjustment to previous figure.

Quit

Closes IMAGE MENU.

IMAGE ADJUST MENU



PICTURE SCREEN ADJUSTMENT

This projector has a picture screen resize function, which enables you to display desirable image size.

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SCREEN Menu icon.
- 2 Press POINT DOWN button and move a red frame pointer to function that you want to select and then press SELECT button.



Normal

Provides image to fit screen size.



True

Provides image in its original size. When original image size is larger than screen size (1024 x 768), this projector enters "Digital zoom +" mode automatically.



Wide

Provides image to fit wide video aspect ratio (16 : 9) by expanding image width uniformly. This function can be used for providing a squeezed video signal at 16 : 9.



Digital zoom +

When Digital zoom + is selected, ON-SCREEN MENU disappears and message "D. Zoom +" is displayed. Press SELECT button to expand image size. And press POINT UP/DOWN/LEFT/RIGHT button(s) to pan image. Panning function can work only when image is larger than screen size.

A projected image can be also expanded by pressing D.ZOOM ▲ button on Remote Control Unit.



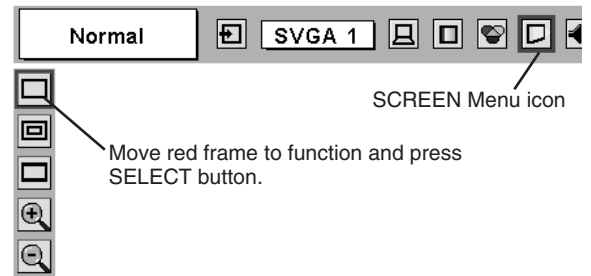
Digital Zoom -

When Digital zoom - is selected, ON-SCREEN MENU disappears and message "D. Zoom -" is displayed. Press SELECT button to compress image size.

A projected image can be also compressed by pressing D.ZOOM ▼ button on Remote Control Unit.

To cancel Digital Zoom +/- mode, press any button except D.ZOOM ▲/▼, SELECT, POINT and AUTO PC ADJ. buttons.

SCREEN MENU



NOTE

- True and Digital zoom +/- cannot be operated when "RGB", "1035i (HDTV)" or "1080i (HDTV)" is selected on PC SYSTEM Menu (P25).
- Wide cannot be selected when "720p (HDTV)", "1035i (HDTV)" or "1080i (HDTV)" is selected on PC SYSTEM Menu (P25).
- This projector cannot display any resolution higher than 1280 X 1024. If your computer's screen resolution is higher than 1280 X 1024, reset resolution to lower before connecting projector.
- Image data in other than XGA (1024 x 768) is modified to fit screen size in initial mode.
- Panning function may not operate properly if computer system prepared on PC ADJUST Menu is used.

SELECTING INPUT SOURCE

WHEN SELECT INPUT 2 (5 BNC INPUT JACKS)

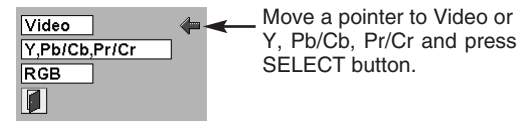
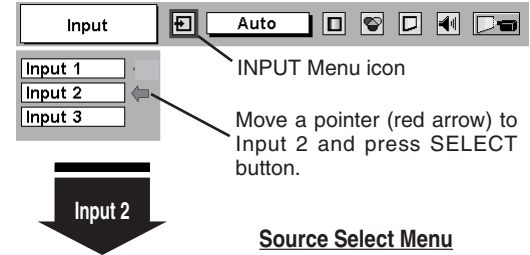
When connecting to those equipment, select a type of Video source in SOURCE SELECT Menu.

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to Input 2 and then press SELECT button. Source Select Menu will appear.
- 3 Move a pointer to source that you want to select and then press SELECT button.

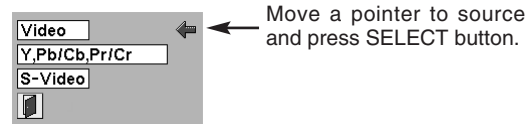
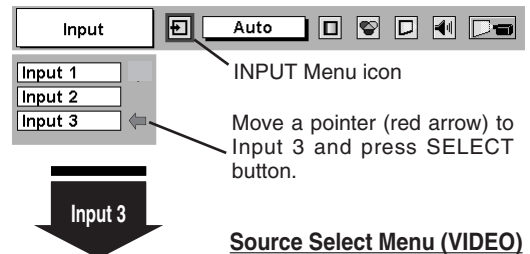
Video When video input signal is connected to VIDEO jack, select Video.

Y,Pb/Cb,Pr/Cr When video input signal is connected to Y-Pb/Cb-Pr/Cr jacks, select Y, Pb/Cb, Pr/Cr.

INPUT MENU



INPUT MENU



When connecting to those equipment, select a type of Video source in SOURCE SELECT (VIDEO) Menu.

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to INPUT Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to Input 3 and then press SELECT button. Source Select Menu will appear.
- 3 Move a pointer to source that you want to select and then press SELECT button.

Video When video input signal is connected to VIDEO jack, select Video.

Y,Pb/Cb,Pr/Cr When video input signal is connected to Y-Pb/Cb-Pr/Cr jacks, select Y, Pb/Cb, Pr/Cr.

S-Video When video input signal is connected to S-VIDEO jack, select S-Video.

SELECTING VIDEO SYSTEM

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT buttons to move a red frame pointer to AV SYSTEM Menu icon.
- 2 Press POINT DOWN button to move a red arrow pointer to system that you want to select and then press SELECT button.

VIDEO JACK OR S-VIDEO JACK

Auto

Projector automatically detects incoming Video system, and adjusts itself to optimize its performance.
When Video System is PAL-M or PAL-N, select system manually first.

PAL / SECAM / NTSC / NTSC4.43 / PAL-M / PAL-N

If projector cannot reproduce proper video image, it is necessary to select a specific broadcast signal format among PAL, SECAM, NTSC, NTSC 4.43, PAL-M, and PAL-N.

Y, Pb/Cb, Pr/Cr JACKS

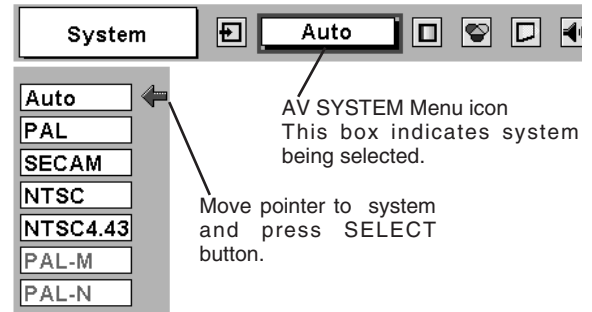
Auto

Projector automatically detects incoming Video signal, and adjusts itself to optimize its performance.
When Video System is 1035i or 1080i, select system manually first.

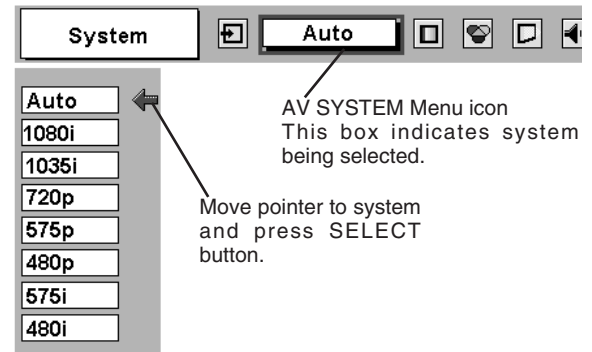
COMPONENT VIDEO SIGNAL FORMAT

If projector cannot reproduce proper video image, it is necessary to select a specific component video signal format among 480i, 575i, 480p, 575p, 720p, 1035i and 1080i.

AV SYSTEM MENU (VIDEO OR S-VIDEO)



AV SYSTEM MENU (COMPONENT VIDEO)



PICTURE IMAGE ADJUSTMENTS

IMAGE LEVEL SELECT (DIRECT)

Select image level among Standard, Cinema, Image 1, Image 2, Image 3 and Image 4 by pressing IMAGE button on Top Control or on Remote Control Unit.

Standard

Normal picture level preset on this projector.

Cinema

Picture level adjusted for picture with fine tone.

IMAGE 1~4

User preset picture adjustment in IMAGE ADJUST Menu (P36).

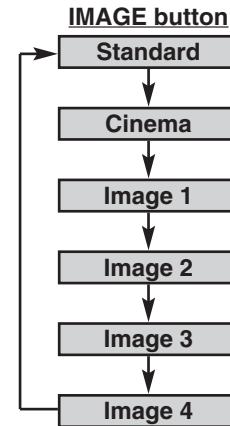


IMAGE LEVEL SELECT (MENU)

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button to move a red frame pointer to IMAGE SELECT Menu icon.
- 2 Press POINT DOWN button to move a red frame pointer to level that you want to set and then press SELECT button.

 **Standard**

Normal picture level preset on this projector.

 **Cinema**

Picture level adjusted for picture with fine tone.

 **IMAGE 1~4**

User preset picture adjustment in IMAGE ADJUST Menu (P36).

IMAGE SELECT MENU

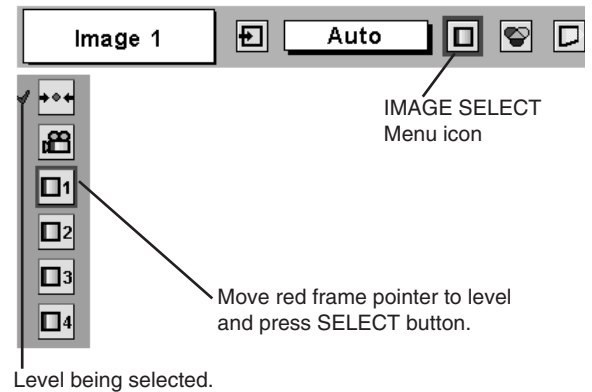


IMAGE LEVEL ADJUSTMENT

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to IMAGE ADJUST Menu icon.
- 2 Press POINT DOWN button to move a red frame pointer to item that you want to adjust and then press SELECT button. Level of each item is displayed. Adjust each level by pressing POINT LEFT/RIGHT button(s).

Contrast

Press POINT LEFT button to decrease contrast, and POINT RIGHT button to increase contrast. (From 0 to 63.)

Brightness

Press POINT LEFT button to adjust image darker, and POINT RIGHT button to adjust brighter. (From 0 to 63.)

Color

Press POINT LEFT button to lighten color, and POINT RIGHT button to deeper color. (From 0 to 63.)

Tint

Press POINT LEFT button or POINT RIGHT button to obtain proper color. (From 0 to 63.)

White balance (Red)

Press POINT LEFT button to lighten red tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

White balance (Green)

Press POINT LEFT button to lighten green tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

White balance (Blue)

Press POINT LEFT button to lighten blue tone and POINT RIGHT button to deeper tone. (From 0 to 63.)

Sharpness

Press POINT LEFT button to soften image, and POINT RIGHT button to sharpen image. (From 0 to 15.)

Gamma

Press either POINT LEFT button or POINT RIGHT button to obtain better balance of contrast. (From 0 to 15.)

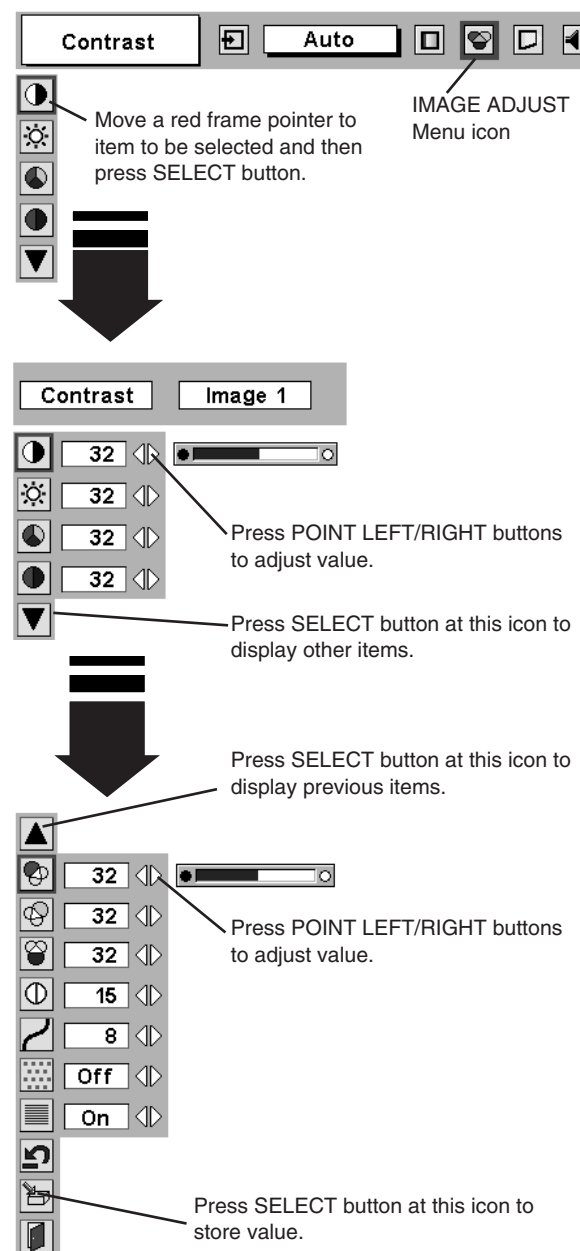
Noise reduction

Press POINT LEFT/RIGHT button(s) to change noise reduction mode. Dialog box display is changed to "On" to reduce noise (rough parts) of image. Press POINT LEFT/RIGHT button(s) again, to change noise reduction mode to off.

Progressive scan

Press POINT LEFT/RIGHT button(s) to change progressive scan mode. Dialog box display is changed to "Off" and progressive scan mode to off. Press POINT LEFT/RIGHT button(s) again, progressive scan mode to on.

IMAGE ADJUST MENU



NOTE :

Tint cannot be adjusted when video system is PAL, SECAM, PAL-M or PAL-N.

Noise Reduction cannot be operated when video signal types and systems as follow.

- Composite video signal (SECAM, NTSC4.43, PAL-M and PAL-N systems).
- S-video signal (SECAM, PAL-M and PAL-N systems).
- Component video signal.

Progressive cannot be operated when "480p", "575p", "720p", "1035i" or "1080i" is selected on AV SYSTEM MENU (P33).

3 Store

To store adjustment data, move a red frame pointer to Store icon and press SELECT button. Image Level Menu will appear. Move a red frame pointer to Image Level 1 to 4 and then press SELECT button.

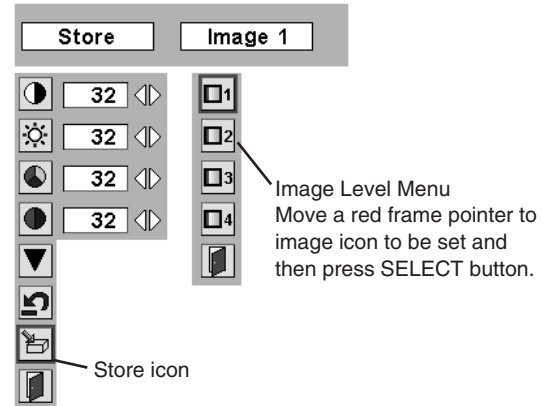
Other icons operates as follows.

Reset

Reset all adjustment to previous figure.

Quit

Closes IMAGE MENU.



PICTURE SCREEN ADJUSTMENT

This projector has a picture screen resize function, which enables you to display desirable image size.

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SCREEN Menu icon.
- 2 Press POINT DOWN button and move a red frame pointer to function that you want to select and then press SELECT button.

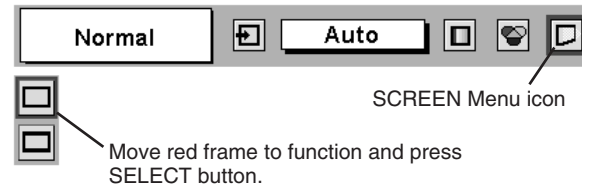
Normal

Provides image at a normal video aspect ratio of 4 : 3.

Wide

Provides image at a wide screen ratio of 16 : 9.

SCREEN MENU



NOTE : SCREEN Menu cannot be operated when "720p," "1035i," or "1080i" is selected on AV SYSTEM Menu (P33).

SETTING MENU

- 1 Press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red-frame pointer to SETTING icon.
- 2 Press POINT DOWN button to move a red-frame pointer to item that you want to set and then press SELECT button. Setting dialog box appears.

Language

Language used in ON-SCREEN MENU is selectable from among English, German, French, Italian, Spanish, Portuguese, Dutch, Swedish, Chinese, Korean and Japanese.

Keystone

When image is distorted, select Keystone. ON-SCREEN MENU disappears and Keystone dialog box is displayed. Correct keystone distortion by pressing POINT UP/DOWN/LEFT/RIGHT button(s). Refer to KEYSTONE ADJUSTMENT on page 22.

Blue back

When this function is "On," this projector will produce a blue image instead of video noise on screen when any input source is unplugged or turned off.

Display

This function decides whether to display On-Screen Displays.

- On ... shows all On-Screen Displays.
- Off ... sets On-Screen Displays disappeared except;
 - ON-SCREEN MENU
 - "Power off?" message

Logo

When this function is "On," projector displays our logo when starting up.

Ceiling

When this function is "On," picture is top / bottom and left / right reversed. This function is used to project image from a ceiling mounted projector.

Rear

When this function is "On," picture is left / right reversed. This function is used to project image to a rear projection screen.

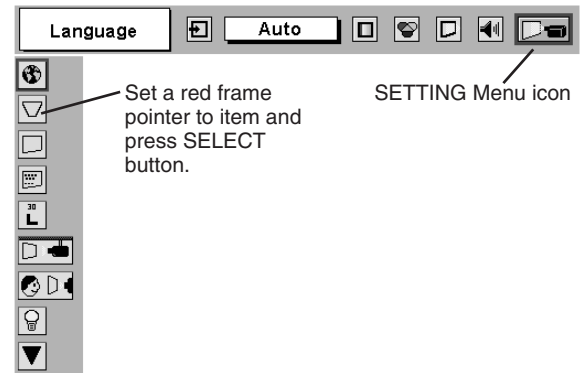
Power management

This function turns Projection Lamp off when this projector detects signal interruption and is not used for a certain period in order to reduce power consumption and maintain Lamp-life. (This projector is shipped with this function ON.)

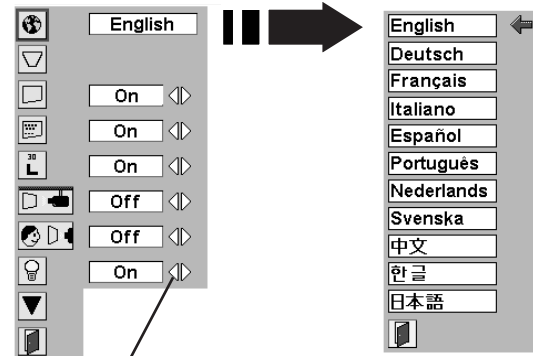
Power Management function operates to turn Projection Lamp off when input signal is interrupted and any button is not pressed over 5 minutes. This function operates as follows;

1. When any input signal is interrupted, "No signal" and counting down display appears (for 5 minutes).
2. After counting down for 5 minutes, projector lamp and READY indicator are turned off.
3. When READY indicator flashing, Projection Lamp can be turned on again (Power Management mode).
In this Power Management mode, Projection Lamp is automatically turned on when input signal connected or projector is operated with any button on Top Control or on Remote Control Unit again.

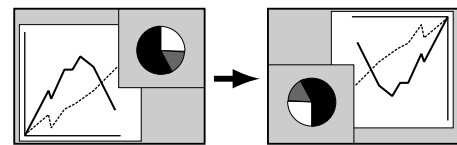
SETTING MENU



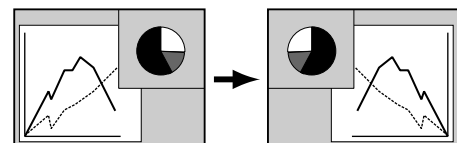
When pressing SELECT button at Language, Language Menu appears.



Ceiling function



Rear function



No signal
4 : 50

Time left until Lamp off.

SETTING



On start

When this function is "On," projector is automatically turned on just by connecting AC Power cord to a wall outlet.

Note ; Be sure to turn projector off properly (refer to section "TURNING OFF PROJECTOR" on P21). If projector is turned off in wrong steps, On Start function does not operate properly.



Lamp mode

When selecting the "💡" (Eco), the projector reduce the brightness and set into the low power consumption mode.



Remote control

This projector has two different remote control codes; factory-set normal code (Code 1) and secondary code (Code 2). This switching function prevents remote control operation mixture (jam) when operating several projectors or video equipment together. When operating projector in "Code 2," both projector and Remote Control Unit must be switched to "Code 2."

To change code of Projector:

Set Remote control in SETTING MENU to "Code 2."

To change code of Remote Control Unit:

Press both MENU and IMAGE buttons on Remote Control Unit together for over 10 seconds.

After changing code, make sure Remote Control operates properly.

To return to normal code (Code 1), operate both projector and Remote Control in ways above again.

NOTE : When batteries of Remote Control Unit are replaced or ALL-OFF switch is turned to "ALL-OFF," remote transmit code automatically returns to normal code (Code 1).



USB

This Projector is equipped with USB port for interactive operation between a projector and computer. Set mode following steps below.

Wireless Mouse mode

Select "🖱️" when controlling a computer with Remote Control of this projector.

Projector mode

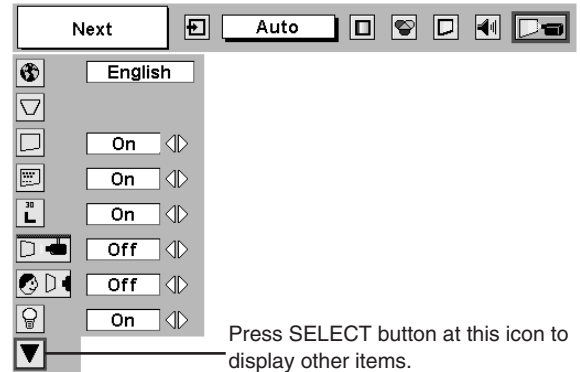
Select "🖥️" when controlling a projector with computer.

NOTE: Before you control a projector by computer, install USB driver (optionally sold parts) and set up computer following instruction in USB driver package. Contact your authorized dealer.

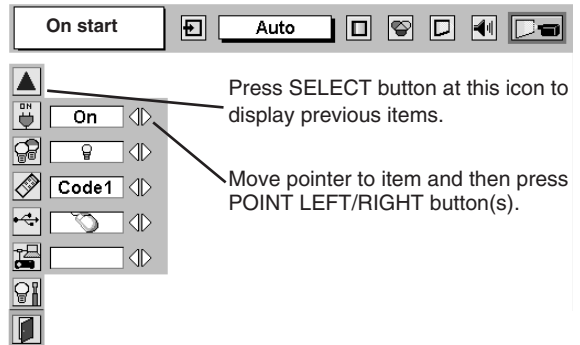


Network Adapter Box

This function cannot be adjusted when not attach the Network Adapter Box (optional part) to the projector. Refer to the owner's manual in the optional Network Adapter Box.



Press SELECT button at this icon to display other items.



Press SELECT button at this icon to display previous items.

Move pointer to item and then press POINT LEFT/RIGHT button(s).

SETTING/APPENDIX



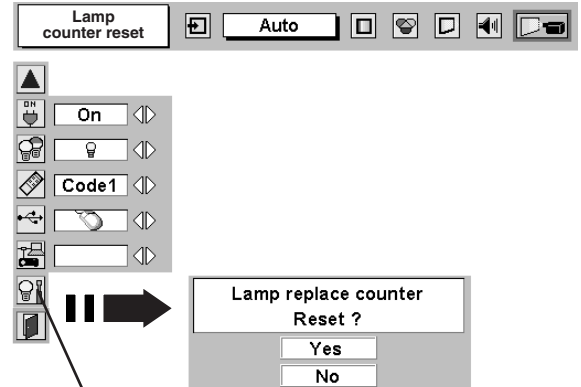
Lamp counter reset

This function is used to reset Lamp Replace Counter. When replacing Projection Lamp, reset Lamp Replace Counter by using this function. Refer to page 41 for operation.



Quit

Closes SETTING MENU.



Move pointer to Lamp counter reset and then press SELECT button. Message "Lamp replace counter reset?" is displayed.

OPERATING WIRELESS MOUSE

Wireless Remote Control Unit is not only able to operate this projector but also usable as a wireless mouse for most Personal Computers. POINT buttons and two CLICK buttons are used for wireless mouse operation.

This Wireless Mouse function is available only when PC mouse pointer is displayed on a projected screen. When ON-SCREEN MENU or any message / dialog box is displayed on screen instead of PC mouse pointer, this Wireless Mouse function cannot be used.

INSTALLATION

To use Wireless Remote Control Unit as Wireless Mouse for a Personal Computer, installation of mouse driver (not supplied) is required. Make sure that mouse driver is properly installed in your computer. And make sure that mouse port (or USB port) of a Personal Computer is activated.

- 1 Connect mouse port (or USB port) of your computer to Control Port (or USB connector) of this projector with Control Cable (or USB cable). (Refer to page 13, 14 for connection.)
- 2 Turn a projector on first, and then turn on your computer. When computer is switched on first, Wireless Mouse may not work properly.

Note : When your computer has no mouse port, connect Serial Port of your computer to Control Port of a projector with Control Cable for Serial Port (not supplied).

OPERATING WIRELESS MOUSE

When controlling a PC mouse pointer, operate Wireless Mouse with POINT button, SELECT button, and RIGHT CLICK button on Wireless Remote Control Unit.

POINT button

Used to move PC mouse pointer. Pointer is moved corresponding with direction you are pressing.

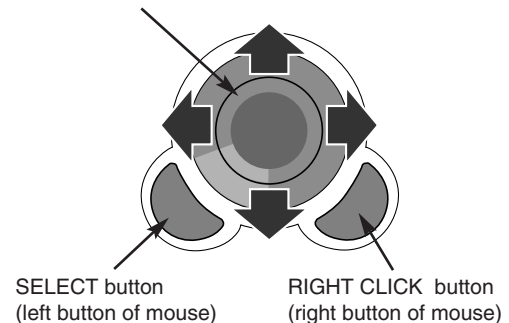
SELECT (LEFT CLICK) button

This button has same function as left button in a PC mouse.

RIGHT CLICK button

This button has same function as right button in a PC mouse. This button is not available for controlling this projector.

POINT button (Move pointer)



MAINTENANCE

WARNING TEMP. INDICATOR

WARNING TEMP. Indicator flashes red when an internal temperature of a projector exceeds normal temperature. This Indicator stops flashing when temperature of a projector returns to normal.

When WARNING TEMP. Indicator continues to flash, check items listed below.

- 1 Ventilation Slots of a projector may be blocked. In such an event, reposition a projector so that Ventilation Slots are not obstructed.
- 2 Air Filter may be clogged with dust particles. Clean Air Filter by following section AIR FILTER CARE AND CLEANING below.
- 3 If WARNING TEMP. Indicator remains on after performing above checks, Cooling Fans or Internal Circuits may be malfunctioning. Contact service personnel from an authorized dealer or a service station.

AIR FILTER CARE AND CLEANING

Air Filter prevents dust from accumulating on surface of Projection Lens and Projection Mirror. Should Air Filter become clogged with dust particles, it will reduce Cooling Fans' effectiveness and may result in internal heat build up and adversely affect life of a projector. Clean Air Filter following steps below:

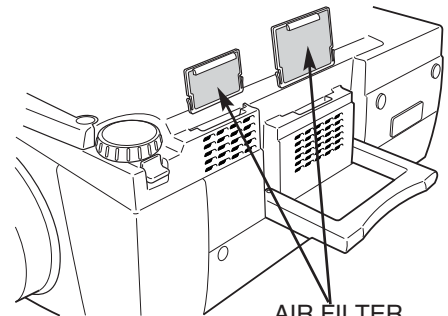
- 1 Turn off a projector, and disconnect AC power cord from AC outlet.
- 2 Turn a projector upside down and remove Air Filter (2 used) by pulling latches upward.
- 3 Clean Air Filter with a brush or wash out dust and particles.
- 4 Replace Air Filter properly. Make sure that Air Filter is fully inserted.



CAUTION

Do not operate a projector with Air Filter removed. Dust may accumulate on LCD Panel and Projection Mirror degrading picture quality.

Do not put small parts into Air Intake Vents. It may result in malfunction of a projector.



AIR FILTER
Pull up and remove.

RECOMMENDATION

We recommend avoiding dusty/smoky environments when operating a projector. Usage in these environments may cause poor image quality.

When using under dusty or smoky conditions, dust may accumulate on a lens, liquid crystal panels, or optical elements inside a projector. This condition may degrade quality of a projected image.

When above symptoms are noticed, contact your authorized dealer or service station for proper cleaning.

CLEANING PROJECTION LENS

Follow these steps to clean Projection Lens:

- 1 Apply a non-abrasive camera lens cleaner to a soft, dry cleaning cloth. Avoid using an excessive amount of cleaner. Abrasive cleaners, solvents or other harsh chemicals might scratch a surface.
- 2 Lightly wipe a cleaning cloth over Projection Lens.
- 3 When a projector is not in use, replace Lens Cover.

LAMP REPLACEMENT

When life of Projection Lamp of this projector draws to an end, LAMP REPLACEMENT indicator lights yellow. When a projected image becomes dark or color of an image becomes unnatural, replacement of Projection Lamp is required.



CAUTION

For continued safety, replace with a lamp assembly of same type.

Allow a projector to cool for at least 45 minutes before you open Lamp Cover. Inside of a projector can become very hot.



CAUTION

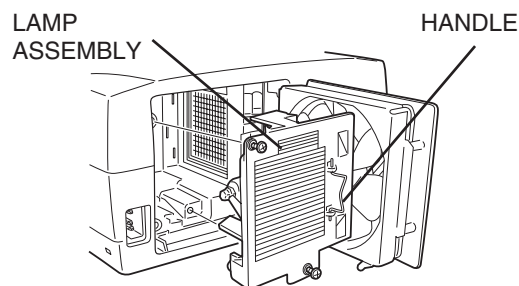
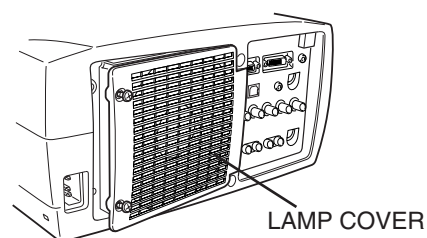
Do not drop a lamp assembly or touch a glass bulb! Glass can shatter and may cause injury.



Follow these steps to replace lamp assembly.

- 1** Turn off a projector and disconnect AC plug. Allow a projector to cool for at least 45 minutes.
- 2** Loosen 2 screws with a screwdriver and open Lamp Cover.
- 3** Loosen 2 screws with a screwdriver and pull out Lamp Assembly by grasping Handle.
- 4** Replace Lamp Assembly with a new one and tighten 2 screws back. Make sure that Lamp Assembly is set properly. Replace Lamp Cover and tighten 2 screws.
- 5** Connect AC Power Cord to a projector and turn it on.
- 6** Reset Lamp Replace Counter (refer to section "Lamp Replace Counter" below).

NOTE : Do not reset Lamp Replace Counter when Projection Lamp is not replaced.



ORDER REPLACEMENT LAMP

Replacement Lamp can be ordered through your dealer. When ordering Projection Lamp, give following information to dealer.

- Model No. of your projector : TLP-X4100E
- Replacement Lamp Type No. : TLPLX40

LAMP REPLACE COUNTER

Be sure to reset Lamp Replace Counter when Lamp Assembly is replaced. When Lamp Replace Counter is reset, LAMP REPLACE Indicator stops lighting.

- 1** Turn projector on, press MENU button and ON-SCREEN MENU will appear. Press POINT LEFT/RIGHT button(s) to move a red frame pointer to SETTING Menu icon (refer to page 39).
- 2** Press POINT DOWN button to move a red frame pointer to "Lamp counter reset" and then press SELECT button. Message "Lamp replace counter reset?" is displayed. Move pointer to [Yes] and then press SELECT button.
- 3** Another confirmation dialog box appears and select [Yes] to reset Lamp Replace Counter.

Do not reset Lamp Replace Counter except after Projection Lamp is replaced.

TROUBLESHOOTING

Before calling your dealer or service center for assistance, check matters below once again.

1. Make sure you have connected a projector to your computer or video equipment as described in section "CONNECTING PROJECTOR" on pages 13 ~ 15.
2. Check cable connection. Verify that all computer, video and power cord are properly connected.
3. Verify that all power is switched on.
4. If a projector still does not produce an image, re-start your computer.
5. If an image still does not appear, unplug a projector from your computer and check your computer monitor's display. Problem may be with your graphics controller rather than with a projector. (When you reconnect a projector, be sure to turn computer and monitor off before you power up a projector. Power equipment back on in order of : Projector and computer.)
6. If problem still exists, check following chart.

Problem:	Try these Solutions
No power.	<ul style="list-style-type: none"> ● Plug a projector into your AC outlet. ● Make sure READY Indicator lights. ● Wait 90 seconds after a projector is turned OFF when turning a projector back on. <p>NOTE : After pressing Power ON-OFF button to OFF, make sure a projector works as follows:</p> <ol style="list-style-type: none"> 1. LAMP indicator lights bright and READY indicator turns off. 2. After 90 seconds, READY indicator lights green again and a projector may be turned on by pressing Power ON-OFF button. <ul style="list-style-type: none"> ● Check WARNING TEMP. indicator. If indicator flashes red, a projector cannot be turned on. (See "TURNING ON/OFF PROJECTOR" section on page 21.) ● Check Projection Lamp. (Refer to page 41.)
Image is out of focus.	<ul style="list-style-type: none"> ● Adjust focus of a projector. ● Make sure a projection screen is at least 4.6' (1.4m) from a projector. ● Check Projection Lens to see if it needs cleaning. <p>NOTE : Moving a projector from a cool temperature location to a warm temperature location may result in moisture condensation on Projection Lens. In such an event, leave a projector OFF and wait until condensation disappears.</p>
Picture is Left/Right reversed.	<ul style="list-style-type: none"> ● Check Ceiling / Rear feature. (See "SETTING" section on page 37.)
Picture is Top/Bottom reversed.	<ul style="list-style-type: none"> ● Check Ceiling feature. (See "SETTING" section on page 37.)
Some displays are not seen during Operation.	<ul style="list-style-type: none"> ● Check Display feature.(See "SETTING" section on page 37.)
No image.	<ul style="list-style-type: none"> ● Check connection between your computer or video equipment and a projector. ● When turning a projector on, it takes about 30 seconds to display an image. ● Check system that you select is corresponding with your computer or video equipment. ● Make sure temperature is not out of Operating Temperature (5°C ~ 35°C).
No sound.	<ul style="list-style-type: none"> ● Check audio cable connection from audio input source. ● Adjust audio source. ● Press VOLUME (+) button. ● Press MUTE button.

Problem:	Try these Solutions
Remote Control Unit does not work.	<ul style="list-style-type: none"> ● Check batteries. ● Check ALL-OFF switch on Remote Control Unit is set to “ON”. ● Make sure nothing is between Infrared Remote Receiver and Remote Control Unit. ● Make sure you are not too far from a projector when using Remote Control Unit. Maximum operating range is 16.4’ (5m). ● Check transmitted signal mode from Remote Control Unit. (See “SETTING” section on page 38.)
Wireless Mouse function does not work.	<ul style="list-style-type: none"> ● Check cable connection between a projector and your computer. ● Check mouse setting on your computer. ● Turn a projector on before turning on a computer.



This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.



The CE Mark is a Directive conformity mark of the European Community (EC).

TECHNICAL SPECIFICATIONS

Projector Type	3LCD Data Projector
Dimensions (W x H x D)	12.6" x 6.6" x 18.5" (319 mm x 168 mm x 470 mm)
Net Weight	18.5 lbs (8.4 kg)
LCD Panel System	1.3" TFT Active Matrix type, 3 panels
Panel Resolution	1024 x 768 dots
Number of Pixels	2,359,296 (1024 x 768 x 3 panels)
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N
High Definition TV Signal	480i, 480p, 575i, 575p, 720p, 1035i and 1080i
Scanning Frequency	H-sync. 15 ~ 100 KHz, V-sync. 50 ~ 100 Hz
Projection Lens	F1.7 ~ 2.0 lens with f=48.2 mm ~ 62.6 mm Motor zoom and focus
Throw distance	4.6' (1.4 m) ~ 48.3' (14.7 m)
Motorized Lens Shift	Up and Down
Projection Image Size (Diagonal)	Adjustable from 31" to 400"
Horizontal Resolution	800 TV lines (HDTV)
Projection Lamp	275 watt type
Input 1 Jacks	DVI Terminal (Digital), HDB 15-pin Terminal (Analog) and Stereo Mini Type Jack (Audio)
Input 2 Jacks	BNC Type x 5 (G or VIDEO/Y, B or Cb/Pb, R or Cr/Pr, H and V), Stereo Mini Type Jack (Audio)
Input 3 Jacks	RCA Type x 3 (VIDEO/Y, Cb/Pb and Cr/Pr), RCA Type x 2 (Audio R and L) and DIN 4-pin (S-Video)
Other Jacks	DIN 8-pin (Control port), USB port (Series B receptacle), Wired Remote Jack and Network Adapter Box Connector
Built-in Speakers	INT. SP. Stereo (R and L), 2 watt RMS (T.H.D. 10%)
Feet Adjustment	0° to 10.5°
Voltage and Power Consumption	AC 100 ~ 120 V (4.8 A Max. Ampere), 50 / 60 Hz (The U.S.A and Canada) AC 200 ~ 240 V (2.4 A Max. Ampere), 50 / 60 Hz (Continental Europe and The U.K.)
Operating Temperature	41 °F ~ 95 °F (5 °C ~ 35 °C)
Storage Temperature	14 °F ~ 140 °F (-10 °C ~ 60 °C)
Remote Control Transmitter	Power Source : AA, UM3 or R06 Type x 2 Operating Range : 16.4' (5m) / ±30° Dimensions : 2.2" x 1.3" x 7.6" (55mm x 34mm x 192mm) Net Weight : 0.36 lbs (165 g) (including batteries) Laser Pointer : Class II Laser (Max. Output : 1mW / Wave length : 650±20nm)
Accessories	Owner's Manual AC Power Cord Wireless/Wired Remote Control Transmitter and Batteries Remote Control Cable VGA Cable MAC/VGA Adapter 3 Types Control Cable (For PS/2, Serial and ADB port) Protective Dust Cover Lens Cover

● Specifications are subject to change without notice.

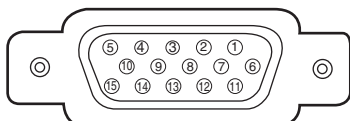
CONFIGURATIONS OF TERMINALS

COMPUTER INPUT-1 TERMINAL (ANALOG)

Terminal : HDB15-PIN

Connect display output terminal of computer to this terminal with VGA Cable (supplied). When connecting Macintosh computer, MAC Adapter (supplied) is required.

Pin Configuration



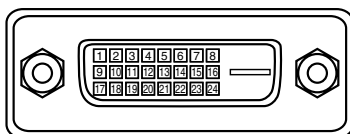
1	Red Input	9	+5V Power
2	Green Input	10	Ground (Vert.sync.)
3	Blue Input	11	Sense 0
4	Sense 2	12	DDC Data
5	Ground (Horiz.sync.)	13	Horiz. sync.
6	Ground (Red)	14	Vert. sync.
7	Ground (Green)	15	DDC Clock
8	Ground (Blue)		

COMPUTER INPUT-1 TERMINAL (DIGITAL)

Terminal : DVI 24-pin

Connect display output terminal of computer to this terminal with DVI cable (for Single Link T.M.D.S. / not supplied).

Pin Configuration



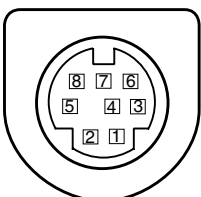
1	T.M.D.S. Data2-	9	T.M.D.S. Data1-	17	T.M.D.S. Data0-
2	T.M.D.S. Data2+	10	T.M.D.S. Data1+	18	T.M.D.S. Data0+
3	T.M.D.S. Data2 Shield	11	T.M.D.S. Data1 Shield	19	T.M.D.S. Data0 Shield
4	No Connect	12	No Connect	20	No Connect
5	No Connect	13	No Connect	21	No Connect
6	DDC Clock	14	+5V Power	22	T.M.D.S. Clock Shield
7	DDC Data	15	Ground (for +5V)	23	T.M.D.S. Clock+
8	No Connect	16	Hot Plug Detect	24	T.M.D.S. Clock-

CONTROL PORT CONNECTOR

Terminal : Mini DIN 8-PIN

Connect control port (PS/2, Serial or ADB port) on your computer to this connector with Control Cable (supplied).

Pin Configuration

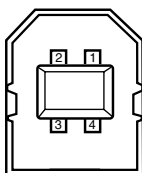


	PS/2	Serial	ADB
1	----	R X D	----
2	CLK	----	ADB
3	DATA	----	----
4	GND	GND	GND
5	----	RTS / CTS	----
6	----	T X D	----
7	GND	GND	----
8	----	GND	GND

USB CONNECTOR (Series B)

Connect USB port terminal on your computer or peripheral equipment to this connector with USB Cable (not supplied).

Pin Configuration



1	Vcc
2	- Data
3	+ Data
4	Ground

